Search history

Search 1: FT=(spray* and container* and liquid* and membrane* and vibration* and ultrasonic*) (Results 2539)

Search 2: 2. hole* (Results 14230)

Search 3: 1.hole* (Results 10947)

Search 4: 1. dosification* (Results 0)

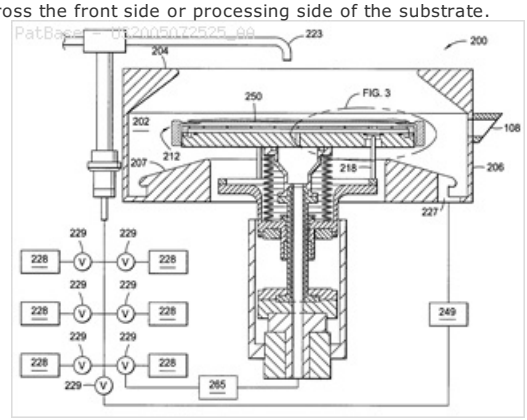
Search 5: (1) AND IPC=(B05) (Results 291)

1) Family number: 48169001 (US2005072525A)

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Title: APPARATUS TO IMPROVE WAFER TEMPERATURE UNIFORMITY FOR FACE-UP WET PROCESSING

Abstract: A method and apparatus for controlling a substrate temperature during an electroless deposition process. The apparatus includes a deposition cell configured to support a substrate at a position above a fluid distribution member. A heated fluid is dispensed from the fluid distribution member and contacts the backside of the substrate, thus heating the substrate. The fluid is dispensed from apertures configured to maintain a constant temperature across the substrate surface. The method includes flowing a heated fluid through a diffusion member against a backside of the substrate in a configuration that is configured to generate a constant processing temperature across the front side or processing side of the substrate.



Classifications:

International (IPC 8-9): C23C16/46 C23C16/54 B01J23/46 B01J37/02 B01J37/08 B05B7/16 B05C1/00 B05C11/00 B05C11/02 B05C13/00 B05C13/02 B05C19/02 B05C3/00 B05C3/02 B05C3/09 B05C5/00 B05D3/00 B05D3/04 B05D3/10 B05D3/12 B05D5/00 B05D5/12 B05D7/00 B05D7/20 B32B9/00 C23C16/00 C23C16/04 C23C16/06 C23C16/14 C23C16/448 C23C16/455 C23C16/458 C23C18/16 C23C18/18 C23C18/28 C23C18/31 C23C18/40 C23C26/00 C23C26/02 C23C28/00 C23F1/00 C23F1/08 C23F1/16 C25D19/00 C25D5/22 C25D7/12 G09G3/00 H01G9/00 H01L21/00 H01L21/02 H01L21/20 H01L21/205 H01L21/28 H01L21/285 H01L21/288 H01L21/306 H01L21/3205 H01L21/326 H01L21/44 H01L21/67 H01L21/687 H01L21/768 H01L23/52 H01L23/532 H05H1/24 (Advanced/Invention);
B05D7/20 H01L21/288 (Advanced/Non-invention);
B01J23/46 B01J37/00 B05C1/00 B05C11/02 B05C13/00 B05C3/00 B05D3/00 B05D3/04 B05D3/12 B05D5/00 B05D5/12 B05D7/00 B05D7/20 B32B9/00 C23C16/00 C23C16/04 C23C16/06 C23C16/448 C23C16/455 C23C18/16 C23C18/18 C23C18/31 C23C26/00 C23C26/02 C23C28/00 G09G3/00 H01G9/00 H01L21/00 H01L21/02 H01L21/67 H01L21/70 H01L23/52 H05H1/24 (Core/Invention);
H01L21/02 (Core/Non-invention)

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US: 118/202 118/300 118/302 118/319 118/320 118/321 118/410 118/412 118/420 118/423 118/423S 118/428 118/429 118/50 118/500 118/500S 118/52 118/52S 118/58 118/620 118/620S 118/666 118/667 118/715 118/719 118/719S 118/724 118/725 118/728 118/728S 118/729 118/729S 118/730 134/84 134/88 134/902 156/345.1 156/345.100S 156/345.11 156/345.110P 156/345.110S 204/227 204/232 204/242 204/267 257/E21.165 257/E21.165S 257/E21.17 257/E21.170S 257/E21.171 257/E21.171S 257/E21.174 257/E21.174S 29/25.03 29/25.030P 345/32 345/32P 392/418 427/124 427/124S 427/240 427/240P 427/248.1 427/248.100 427/248.100P 427/248.100S 427/250 427/255.31 427/299 427/299S 427/304 427/304S 427/305 427/305P 427/402 427/402S 427/437 427/437S 427/443.1 427/443.100S 427/576 427/576S 427/8 427/8S 428/701 428/701P 428/702 428/702S 438/678 438/678P

Family:

Publication number	Publication date	Application number	Application date
CN100461334 C	20090211	CN200480029140	20041005
CN101578141 A	20091111	CN200680033024	20060907
CN1864241 A	20061115	CN200480029140	20041005
CN1900358 A	20070124	CN200610098561	20060706
CN1922344 A	20070228	CN200480030052	20041015
CN1981070 A	20070613	CN200580003111	20050126
EP1676295 A2	20060705	EP20040794284	20041005
EP1685280 A2	20060802	EP20040795598	20041015
EP1853745 A2	20071114	EP20060733844	20060125
EP1937419 A2	20080702	EP20060814310	20060907
EP1937419 A4	20091104	EP20060814310	20060907
JP2007046156 A2	20070222	JP20060186953	20060706
JP2007509231 T2	20070412	JP20060534275T	20041005
JP2007509236 T2	20070412	JP20060535426T	20041015
JP2007519831 T2	20070719	JP20060551446T	20050126
JP2008534774 T2	20080828	JP20070553201T	20060123
JP2008538796 T2	20081106	JP20070553170T	20060125
JP2009508003 T2	20090226	JP20080530210T	20060907
JP4644676 B2	20110302	JP20060534275T	20041005
JP4875492 B2	20120215	JP20060535426T	20041015
JP4931605 B2	20120516	JP20060551446T	20050126
JP5043684 B2	20121010	JP20070553170T	20060125
KR101014240 B1	20110216	KR20077019546	20070827
KR101109299 B1	20120131	KR20067008592	20060503
KR101246838 B1	20130328	KR20060062879	20060705
KR20060097029 A	20060913	KR20067009430	20041015
KR20060107760 A	20061016	KR20067008592	20041005
KR20060129410 A	20061215	KR20067017247	20050126
KR20070005511 A	20070110	KR20060062879	20060705
KR20070101357 A	20071016	KR20077019546	20060125
KR20080050612 A	20080609	KR20087008459	20060907
TW200523391 A	20050716	TW20040131142	20041014
TW200525645 A	20050801	TW20040130104	20041005
TW200533424 A	20051016	TW20050102363	20050126
TW200633032 A	20060916	TW20060102179	20060120
TW200702474 A	20070116	TW20060103189	20060126
TW200714741 A	20070416	TW20060133113	20060907
TW200716794 A	20070501	TW20060127791	20060728
TW200800412 A	20080101	TW20060124386	20060704
TWI343840 B	20110621	TW20060124386	20060704
TWI345806 B	20110721	TW20060102179	20060120
TWI349717 B	20111001	TW20060103189	20060126
TWI351725 B	20111101	TW20040130104	20041005
TWI355298 B	20120101	TW20050102363	20050126
TWI368665 B	20120721	TW20040131142	20041014
TWI374951 B	20121021	TW20060127791	20060728
US2005072525 AA	20050407	US20030680325	20031006
US2005072526 AA	20050407	US20030680359	20031006
US2005081785 AA	20050421	US20040965220	20041014
US2005084615 AA	20050421	US20040794592	20040305
US2005160990 AA	20050728	US20040996342	20041122
US2005260345 AA	20051124	US20050175251	20050706
US2005263066 AA	20051201	US20050043442	20050126
US2006033678 AA	20060216	US20050192993	20050729
US2006162658 AA	20060727	US20050228425	20050915
US2006165892 AA	20060727	US20050228649	20050915
US2006240187 AA	20061026	US20060341696	20060127
US2007111519 AA	20070517	US20060428230	20060630
US2007190362 AA	20070816	US20060530003	20060907
US2007199507 AA	20070830	US20070743413	20070502
US2007271751 AA	20071129	US20070837375	20070810
US7223308 BB	20070529	US20030680325	20031006
US7311779 BB	20071225	US20030680359	20031006
US7323058 BB	20080129	US20040996342	20041122
US7341633 BB	20080311	US20040965220	20041014
US7438949 BB	20081021	US20050228649	20050915
US7465358 BB	20081216	US20040794592	20040305
US7654221 BB	20100202	US20050175251	20050706
US7827930 BB	20101109	US20050043442	20050126
WO05036615 A2	20050421	WO2004US32879	20041005
WO05036615 A3	20050609	WO2004US32879	20041005
WO05038094 A2	20050428	WO2004US34456	20041015
WO05038094 A3	20050825	WO2004US34456	20041015
WO05073430 A2	20050811	WO2005US02510	20050126
WO05073430 A3	20060608	WO2005US02510	20050126
WO06081234 A2	20060803	WO2006US02461	20060125
WO06081234 A3	20090507	WO2006US02461	20060125
WO06081290 A2	20060803	WO2006US02619	20060123
WO06081290 A3	20090416	WO2006US02619	20060123
WO07016218 A2	20070208	WO2006US29137	20060728

WO07030672 A2	20070315	WO2006US34952	20060907
WO07030672 A3	20090507	WO2006US34952	20060907

Priority:

US20030680325	20031006	US20030680359	20031006	US20030511236P	20031015
US20040539491P	20040126	US20040794592	20040305	US20040575553P	20040528
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Probable Assignee: APPLIED MATERIALS INC

Assignee(s): (std): CHEBOLI RAMAKRISHNA ; LUBOMIRSKY DMITRY ; ELLWANGER RUSSELL ; NGUYEN SON T ; LOPATIN SERGEY ; D AMBRA ALLEN ; HANSEN BRADLEY ; WEIDMAN TIMOTHY W ; SHANMUGASUNDRAM ARULKUMAR ; PANCHAM IAN A ; ROSEN GARY J ; RABINOVICH EUGENE ; WANG YAXIN ; YANG MICHAEL X ; SHERMAN SVETLANA ; STEWART MICHAEL P ; WEIDMAN TIMOTHY ; APPLIED MATERIALS CO LTD ; APPLIED MATERIALS INC ; BIRANG MANOOCHER

Inventor(s): (std): WEIDMAN TIMOTHY W ; CHEBOLI RAMAKRISHNA ; ELLWANGER RUSSELL ; SHERMAN SVETLANA ; BIRANG MANOOCHER ; YANG MICHAEL X ; D AMBRA ALLEN ; HANSEN BRADLEY ; RABINOVICH EUGENE ; WANG YAXIN ; STEWART MICHAEL P ; RAMAKRISHNA CHEBOLI ; IAN A PANCHAM ; ARULKUMAR SHANMUGASUNDRAM ; DMITRY LUBOMIRSKY ; RUSSELL ELLWANGER ; TIMOTHY W WEIDMAN ; SERGEY LOPATIN ; GARY J ROSEN ; SON T NGUYEN ; SERGEY LUBOMIRSKY DMITRY SHANM ; RAMAKRISHNA LUBOMIRSKY DMITRY ; NGUYEN SON T ; PANCHAM IAN A ; ROSEN GARY J ; LOPATIN SERGEY ; WEIDMAN TIMOTHY ; LUBOMIRSKY DMITRY ; SHANMUGASUNDRAM ARULKUMAR ; TIMOTHY WEIDMAN ; PANCHAM IAN A NGUYEN SON T ROS ; PACHAM DMITRY RUBOMILSK ARAJKU

Inventor(s): LUBOMIRSKY DMITRY SHANMUGASUNDRAM ARULKUMAR... ; DMITRY RUBOMILSK ARAJKUMAR SAMGOZATROM IAN A... ; STEWART MICHAEL P AND ; LUBOMIRSKY DMITRY SHANMUGASUNDRAM ARULKUMAR PANCHAM IAN A ; LUBOMIRSKY DMITRY SHANMUGASUNDRAM ARULKUMAR ELLWANGER RUSSELL PANCHAM IAN A ; NGUYEN SON ; PANCHAM IAN ; ROSEN GARY ; STEWART MICHAEL ; YANG MICHAEL

Agent(s): ZIMMERMANN AND PARTNER; KUMAKURA YOSHIO; OHTSUKA FUMIAKI; NISHIJIMA TAKAKI; SUDA HIROYUKI; UESUGI HIROSHI; PATENT COUNSEL APPLIED MATERIALS INC; MOSER PATTERSON AND SHERIDAN LLP APPLIED MATERIALS INC; PATTERSON AND SHERIDAN LLP; PATTERSON AND SHERIDAN

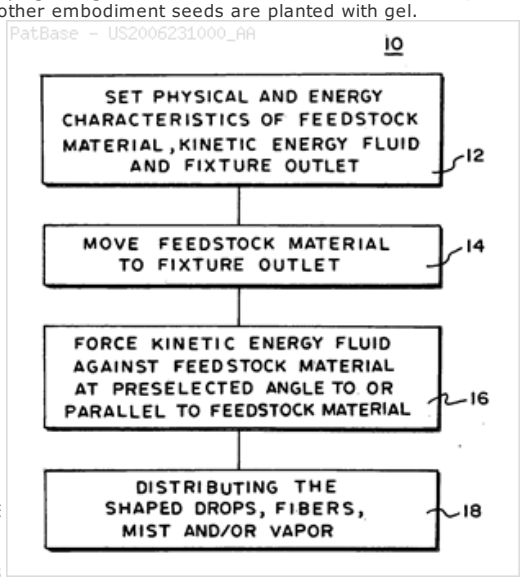
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2) Family number: 33511003 (US2006231000A)

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Title: SYSTEMS FOR THE CONTROL AND USE OF FLUIDS AND PARTICLES

Abstract: The configuration of a feedstock material is controlled by bringing it into contact with at least a first gas moving against it at a location with an area and thickness of the feedstock liquid that forms drops or fibers of a selected size. In one embodiment, drops of agricultural input materials are formed for spraying on agricultural fields. In another embodiment, nanofibers of materials such as chitosan or metals are formed. In another embodiment seeds are planted with gel.



Classifications:

International (IPC 8-9): A01B79/00 A01B79/02 A01C1/00 A01C1/04 A01C1/06 A01C14/00 A01C15/00 A01C21/00 A01C23/00 A01C5/00 A01C7/00 A01C7/06 A01C7/08 A01C7/16 A01C7/18 A01C7/20 A01C9/00 A01G1/00 A01G13/00 A01G25/09 A01G9/08 A01M7/00 A01N25/26 A23L1/00 A23L1/22 A61K9/00 A61K9/50 A61K9/51 A61K9/70 B01J13/00 B05B1/24 B05B17/00 B05B17/04 B05B7/00 B05B7/08 B05B7/12 B05B7/24 B05B9/00 B05B9/03 B05C5/00 B28B1/00 B29C47/88 B65G33/00 C07H3/00 C08B37/00 C08B37/08 C08J3/02 C08J3/09 C08L5/08 D01D1/02 D01D5/00 D01F1/00 D01F6/00 D01F8/00 D01F9/00 F04D3/02 (Advanced/Invention); A01C1/06 A01C14/00 A01C15/00 A01C21/00 A01C23/00 A01C5/00 A01C7/00 A01C9/00 A01M7/00 A01N25/26 B01J13/00 B05B1/00 B05B17/00 B05B17/04 B05B7/02 B05B7/24 B05B9/00 B28B1/00 B65G33/00 C07H3/00 C08J3/02 C08L5/00 D01F9/00 (Core/Invention); A01C (Subclass/Invention)

International (IPC 1-7): A01C15/00 A01C23/00

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Family:

Publication number	Publication date	Application number	Application date
AU2006236371 AA	20061026	AU20060236371	20060418
AU2010235212 AA	20101014	AU20100235212	20100402
AU2010235212 BB	20160331	AU20100235212	20100402
AU2012254894 AA	20121206	AU20120254894	20121115
AU2012254894 BB	20160121	AU20120254894	20121115

AU2016200640 AA	20160218	AU20160200640	20160202
AU2018200376 AA	20180208	AU20180200376	20180117
BRPI0610599 A2	20100706	BR2006PI10599	20060418
BRPI1014236 A2	20170516	BR2010PI14236	20100402
CA2605254 AA	20061026	CA20062605254	20060418
CA2605254 C	20140812	CA20062605254	20060418
CA2758068 AA	20101014	CA20102758068	20100402
CA2758068 C	20190507	CA20102758068	20100402
CN101203128 A	20080618	CN200680021862	20060418
CN101203128 B	20121219	CN200680021862	20060418
CN101683034 A	20100331	CN200910212214	20060418
CN101683034 B	20140625	CN200910212214	20060418
CN101695644 A	20100421	CN200910212213	20060418
CN101695644 B	20140409	CN200910212213	20060418
CN101696276 A	20100421	CN200910212209	20060418
CN101696276 B	20130313	CN200910212209	20060418
CN101822142 A	20100908	CN200910212208	20060418
CN102458094 A	20120516	CN201080025102	20100402
EP1871160 A2	20080102	EP20060750530	20060418
EP1871160 A4	20101215	EP20060750530	20060418
EP2377406 A1	20111019	EP20110168132	20060418
EP2381019 A1	20111026	EP20110168110	20060418
EP2384608 A2	20111109	EP20110168123	20060418
EP2384608 A3	20120215	EP20110168123	20060418
EP2384748 A2	20111109	EP20110168150	20060418
EP2384748 A3	20120314	EP20110168150	20060418
EP2416641 A1	20120215	EP20100761971	20100402
EP2416641 A4	20130828	EP20100761971	20100402
IN04061KN2007 A	20080718	IN2007KN04061	20071023
IN04178KN2011 A	20120706	IN2011KN04178	20111010
IN291816 B	20180119	IN2007KN04061	20071023
JP2008538291 T2	20081023	JP20080507796T	20060418
JP5570720 B2	20140813	JP20080507796T	20060418
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MX339887 B	20160616	MX20110010617	20100402
NZ562877 A	20110429	NZ20060562877	20060418
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US9148994 BA	20151006	US20120674725	20121112
US9820426 BA	20171121	US20150875423	20151005
VN19214 A1	20180625	VN20110003026	20100402
WO06113688 A2	20061026	WO2006US14518	20060418
WO06113688 A3	20071101	WO2006US14518	20060418
WO10117434 A1	20101014	WO2010US01003	20100402
ZA200709033 A	20081231	ZA20070009033	20060418

Priority:

US20050109398	20050419	US20060405603	20060417	AU20060236371	20060418
EP20060750530	20060418	NZ20060562877	20060418	WO2006US14518	20060418
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US20120674725	20121112	AU20120254894	20121115	US20150875423	20151005
AU20160200640	20160202	US20170818473	20171120	AU20180200376	20180117

Probable Assignee: KAMTERTER PRODUCTS LLC

Assignee(s): (std): EASTIN JOHN ALVIN ; KAMTERER PRODUCTS LLC ; KAMTERTER II L L C ; KAMTERTER II LLC ; KAMTERTER LL L L C ; KAMTERTER PRODUCTS LLC ; KAMTERTER IL L L C ; VU DAVID

Assignee(s): KAMTERTER PRODUCTS LLC1025 NORTH 33RD STREETLINCOLNNE68503US ; KAMTERTER LL LLC ; KAMTERTER II LLC1025 NORTH 33RD STREETLINCOLNNE68503US ; KAMTERTER PRODUCTS L L C ; KAMTERTER IL LLC

Inventor(s): (std): ALVIN EASTIN JOHN ; DAVID VU ; EASTIN JOHN A ; EASTIN JOHN ALVIN ; VU DAVID ; JOHN ALVIN EASTIN

Inventor(s): VU DAVIDUS ; EASTIN JOHN ; EASTIN JOHN ALVINUS

Agent(s): CALLINANS; FISHER ADAMS KELLY CALLINANS; SPRUSON AND FERGUSON; RIDOUT AND MAYBEE LLP; UEXKUELL AND STOLBERG; TOMITA HIROYUKI; ONO SHINJIRO; KOBAYASHI YASUSHI; KANDA FUJIHIRO; CHIBA AKIO; VINCENT L CARNEY LAW OFFICE; VINCENT L; CARNEY VINCENT L; SUITER SWANTZ PC LLO

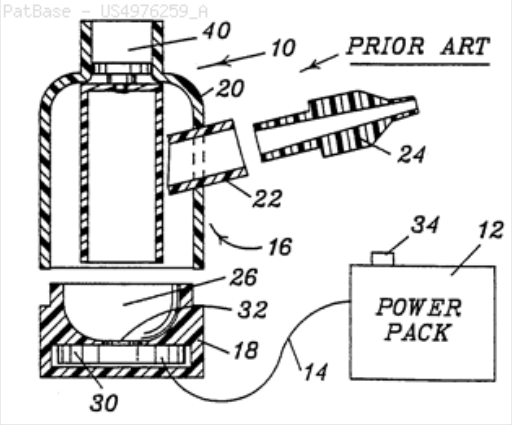
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3) Family number: 4369018 (US4976259A)

Title: ULTRASONIC NEBULIZER

Abstract: An ultrasonic nebulizer is of the type having a piezoelectric transducer communicating with a fluid reservoir and is characterized by having a protective cover of a predetermined wavelength which is superimposed on the transducer, an elastomeric boot in surrounding relation to the cover to prevent fluid loss from the interface between the cover and transducer, and an oil coupling medium is disposed in the interface for coupling the ultrasonic energy from the transducer to the cover.

Classifications:
International (IPC 8-9): A61M11/00 A61M15/00 B05B17/06 (Advanced/Invention); A61M11/00 (Advanced/Non-invention)
International (IPC 1-7): A61H11/00 A61M A61M11/00 A61M11/02 A61M15/00 B05B17/06 B06B1/06
CPC: A61M15/0015 B05B17/0615 A61M15/0085 A61M15/0021 A61M2206/14 A61M11/002 A61M11/005 A61M11/008
European: A61M15/00F B05B17/06B1 K61M15/00A11B
US: 128/200.14 128/200.16 128/200.18 238/107.1 239/102.1



Family:

Publication number	Publication date	Application number	Application date
AU198943986 A1	19900510	AU19890043986	19891102
CA1329083 A1	19940503	CA19890610511	19890907
DE3936248 A1	19900503	DE19893936248	19891031
FR2638362 A1	19900504	FR19890014372	19891102
GB2224446 A1	19900509	GB19890022417	19891005
GB2224446 B2	19920916	GB19890022417	19891005
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IT1236320 A	19930222	IT19890009552	19891030
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US4976259 A	19901211	US19880266823	19881102

Priority:
US19860944203 19861222 US19880266823 19881102 CA19890610511 19890907

Probable Assignee: EDL A CORP OF UTAH CORP

Assignee(s): (std): MAUNTEN MEDICAL IKUUITSUPUMENT ; MOUNTAIN MEDICAL EQUIPMENT INC

Assignee(s): MOUNTAIN MEDICAL EQUIPMENT INC A CORP OF COLORADO ; MOUNTAIN MEDICAL EQUIPMENT INC LITTLETON COL US ; WALLS ROBERT R ; EDL CORP ; MAUNTEN MEDICAL IKUUITSUPUMENTO INC ; HIGSON JAMES R ; D ALFONSO DAVID A ; EDL A CORP OF UTAH CORP

Inventor(s): (std): ALFONSO DAVID A D ; D ALFONSO DAVID A ; DEEBUITSUDO EI DARUFUONSO ; HIGSON JAMES A ; HIGSON JAMES R ; JIEEMUZU EI HIGUSON ; ROBAATO AARU UOORUZU ; WALLS ROBERT R

Inventor(s): ROBERT R WALLS ; JAMES A HIGSON ; JAMES R HIGSON ; D ALFONSO DAVID A GOLETA CALIF US ; DAVID A D ALFONSO

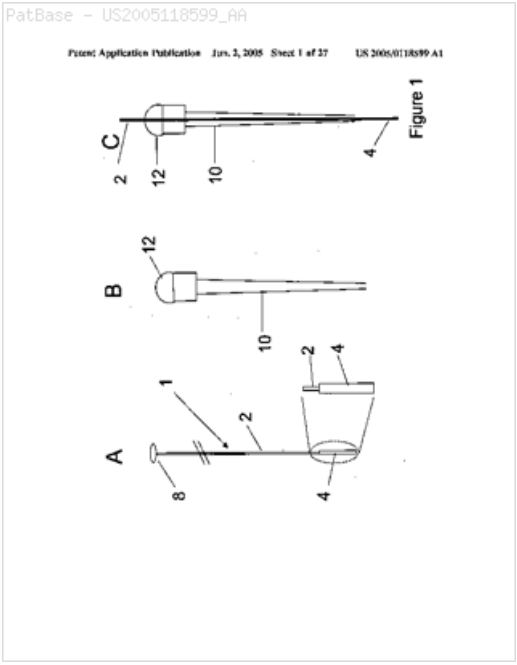
Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR

4) Family number: 29069027 (US2005118599A)

Title: MICRO-DEVICES AND ANALYTICAL PROCEDURES FOR INVESTIGATION OF BIOLOGICAL SYSTEMS

Abstract: Fibres with an extraction phase coated thereon in combination with a positioning device are described to perform adsorption of components of interest from an animal or animal tissue for the investigation of living systems. A number of interfaces to analytical instrumentation are disclosed including mass spectrometry, LC/MS, MALDI and CE as well as direct

spectroscopic on-fibre measurement.



Classifications:

International (IPC 8-9): A01N1/00 A61B1/00 A61B10/00 A61B10/02 A61B5/00 A61B5/055 A61B5/15 A61K49/00 A61L33/00 B01D15/08 B01D15/10 B01J20/26 B01J20/283 B01J20/286 B01J20/287 B01L11/00 B01L3/00 B01L9/00 B01L99/00 B05D1/12 B05D1/24 B05D3/00 B05D3/02 B05D7/22 B32B5/02 C07K1/14 C08G75/20 C08K3/34 C08L39/04 C08L9/02 C09D133/20 C12M1/34 C12M3/00 C23C16/52 D02G3/00 G01N1/00 G01N1/02 G01N1/10 G01N1/14 G01N1/18 G01N1/22 G01N1/28 G01N1/34 G01N1/40 G01N1/44 G01N21/00 G01N21/25 G01N21/71 G01N27/26 G01N27/447 G01N27/62 G01N30/00 G01N30/02 G01N30/06 G01N30/72 G01N30/88 G01N31/22 G01N33/02 G01N33/50 G01N33/538 G01N33/558 G01N33/567 H01J49/00 H01J49/04 H01J49/08 H01J49/10 H01J49/14 H01J49/16 H01J49/26 (Advanced/Invention);
A61B10/00 A61B10/02 A61B17/34 A61B5/145 G01N1/14 G01N1/34 G01N30/00 G01N30/06 G01N30/72 G01N35/02 G01N35/10 H01J49/04 (Advanced/Non-invention);
A01N1/00 A61B1/00 A61B10/00 A61B10/02 A61B5/00 A61B5/055 A61K49/00 A61L33/00 B01D15/10 B01L9/00 B05D3/00 B32B5/02 C08G75/00 C08K3/00 C08L39/00 C08L9/00 C12M1/34 G01N1/18 G01N1/34 G01N21/00 G01N27/447 G01N27/62 G01N30/00 G01N33/567 (Core/Invention);
A61B17/34 (Core/Non-invention)

International (IPC 1-7): A61B10/00 B01L3/00 C12Q1/68 G01N1/00 G01N1/34 G01N27/447 G01N27/62 G01N30/88 G01N33/53

CPC: Y10S436/807 Y10T436/255 Y10T436/25 Y10T436/25375 A61B5/14514 A61B5/417 A61B17/3403 B01L3/5025 B01L2300/046 B01L2300/069 B01L2300/0829 B01L2300/0838 G01N35/028 G01N2001/4016 G01N2035/1053 Y10T436/105831 A61B5/15003 A61B5/150099 A61B5/150229 A61B5/150389 A61B5/150503 A61B5/151 A61B5/153 H01J49/142 A61B5/15 A61B5/157 G01N30/7233 H01J49/0409 H01J49/168 H01J49/10 H01J49/0031 H01J49/26 A61B10/02 B01J20/286 B01J20/287 G01N33/50 H01J49/04 B01J20/283 A61B5/150022 A61B5/150358 A61B10/0045 H01J49/165 Y10T428/2933 G01N1/405 G01N21/714 G01N27/622 G01N30/00 G01N2030/009 G01N2030/062 H01J49/0431 H01J49/0459 G01N1/44 G01N30/06 G01N30/7266 G01N2001/1445 G01N2560/00

European: A61B10/00L A61B5/145D2B A61B5/41J6 B01L3/00C6D B01L3/5025 G01N1/40P H01J49/04L K61B10/00L K61B17/34D K61B5/14 L01L300/04B L01L300/06E L01L300/08B12 L01L300/08C4 S01N1/40A3 S01N30/00E S01N30/06A S01N35/02P S01N35/10F5B

US: 1/1 210/198.2 210/198.200P 210/660 250/282 250/282 250/288 250/423R 422/101 422/102 422/104 422/119 422/255 422/421 422/527 422/527P 422/537 422/537P 422/57 422/58 422/99 422/99P 424/9.1 424/9.34 424/93.4 426/231 426/231P 427/180 427/181 427/2.1 427/2.11 427/2.12 427/2.13 427/21.1 427/21.2 427/21.3 427/379 427/379S 427/8 428/375 428/375S 435/284.1 435/287.1 435/287.2 435/287.9 435/30 435/6 435/6.12 435/6.120P 435/7.1 435/7.100S 435/7.21 435/72.1 436/15 436/161 436/161S 436/174 436/174P 436/177 436/178 436/514 436/514P 436/541 436/807 502/402 502/402S 502/7 524/493 524/493S 524/543 524/543S 524/548 524/548S 524/565 524/566 524/566S 524/609 524/609S 524/612 524/612S 530/412 530/415 600/114 600/308 600/325 600/326 600/327 600/341 600/368 600/581 600/585 73/23.41 73/23.410P

Family:

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AT416675 E	20081215	AT20030706179T	20030306
AU2003208226 AA	20030922	AU20030208226	20030306
CA2945845 AA	20161014	CA20152945845	20150612
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CA2988172 AA	20171204	CA20152988172	20150612
CA2988172 C	20181002	CA20152988172	20150612
CA3019256 AA	20180927	CA20173019256	20170510
DE60325180 D1	20090122	DE20036025180	20030306
EP1482840 A2	20041208	EP20030706179	20030306
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EP3155636 A1	20170419	EP20150807019	20150612
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WO03075772 A2	20030918	WO2003CA00311	20030306
WO03075772 A3	20040205	WO2003CA00311	20030306
WO15188282 A1	20151217	WO2015CA50550	20150612
WO15188283 A1	20151217	WO2015CA50551	20150612
WO17193213 A1	20171116	WO2017CA50562	20170510

Priority:

US20020364214P 20020311 US20020393309P 20020703 US20020208933 20020731
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US20180002350 20180607 US20180162034 20181016

Probable Assignee: PAWLISZYN JANUSZ B

Assignee(s): (std): LORD HEATHER L ; PAWLISZYN JANUSZ B ; MUSTEATA MARCEL ; PAWLISZYN JANUSZ ; MUSTEATA MIHAELA L ; SIDISKY LEONARD M ; MUSTEATA FLORIN MARCEL ; SHIREY ROBERT E ; TASCON MARCOS ; SINGH VAROON ; CHEN YONG ; GOMEZ RIOS GERMAN AUGUSTO ; JANUSZ ; JP SCIENT LTD

Assignee(s): JP SCIENTIFIC LTD ; PAWLISZYN JANUSZ DR

Inventor(s): (std): PAWLISZYN JANUSZ B ; LORD HEATHER L ; MUSTEATA MARCEL ; JANUSZ B PAWLISZYN ; PAWLISZYN JANUSZ ; MUSTEATA MIHAELA L ; MUSTEATA FLORIN MARCEL ; SINGH VAROON ; TASCON MARCOS ; GOMEZ RIOS GERMAN AUGUSTO ; SIDISKY LEONARD M ; CHEN YONG ; SHIREY ROBERT E

Inventor(s): LORD HEATHER

Agent(s): BORDEN LADNER GERVAIS LLP; BECKER KURIG STRAUS; HGF LTD; FUKAMI PATENT OFFICE PC; MR JANUSZ PAWLISZYN; POLSTER LIEDER WOODRUFF AND LUCCHESI; KATHLEEN E; SOJONKY ANDREW D; ANDREW D; DAVID A; BORDEN LADNER GERVAISE LLP; DAVID; NAUMAN DAVID; NAUMAN DAVID A ET AL; NAUMAN DAVID ET AL

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

5) Family number: 45900037 (US2011262731A)

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Title: SUSPENSION OF CELLULOSE FIBERS, FILM AND METHOD FOR PRODUCING THE SAME

Abstract: The present invention provides the suspension of cellulose fibers suitable for producing an oxygen gas barrier film. The present invention provides a suspension of cellulose fibers containing cellulose fibers, a polyvalent metal and a volatile base, wherein the cellulose fibers have an average fiber diameter of not more than 200 nm and the content of carboxyl groups of cellulose composing the cellulose fibers of 0.1 to 2 mmol/g. The suspension is a good material for a film having oxygen gas barrier properties. The present invention provides a film containing cellulose fibers and an inorganic or organic metal salt, wherein the cellulose fibers have an average fiber diameter of not more than 200 nm and the content of carboxyl groups of cellulose composing the cellulose fibers of 0.1 to 2 mmol/g.

Classifications:
International (IPC 8-9): B05D3/02 B32B21/02 B32B23/02 B32B5/02 C08J3/05 C08J5/18 C08J7/04 C08K3/10 C08K3/28 C08K5/09 C08K5/17 C08L1/02 C09D101/00 C09D101/02 C09D5/00 C09D7/12 D21H11/16 (Advanced/Invention); B32B5/02 C08J3/02 C08J7/00 C08K3/00 C08K5/00 C08L1/00 C09D101/00 C09D5/00 C09D7/12 D21H11/00 (Core/Invention)
CPC: Y10T428/249924 C08K2201/008 C08K5/098 C08L1/02 D21H11/16
European: C08K5/098 C08L1/02 D21H11/16
US: 106/204.01 106/204.010S 427/379 427/379S 427/394 427/394S 428/292.1 428/292.100P

Family:

Publication number	Publication date	Application number	Application date
CN102264822 A	20111130	CN200980152727	20091225
CN102264822 B	20140319	CN200980152727	20091225
EP2371893 A1	20111005	EP20090835122	20091225
JP2010168573 A2	20100805	JP20090291857	20091224
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JP5064480 B2	20121031	JP20090291857	20091224
US2011262731 AA	20111027	US20090142145	20091225
WO10074341 A1	20100701	WO2009JP71890	20091225

Priority:

JP20080334372 20081226 JP20090025860 20090206 JP20090291856 20091224
JP20090291857 20091224 WO2009JP71890 20091225

Probable Assignee: KAO CORP

Assignee(s): (std): KAO CORP ; KUMAMOTO YOSHIAKI ; MUKAI KENTA

Inventor(s): (std): KUMAMOTO YOSHIAKI ; MUKAI KENTA

Agent(s): HOFFMANN EITLE; FURUYA SATOSHI 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 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

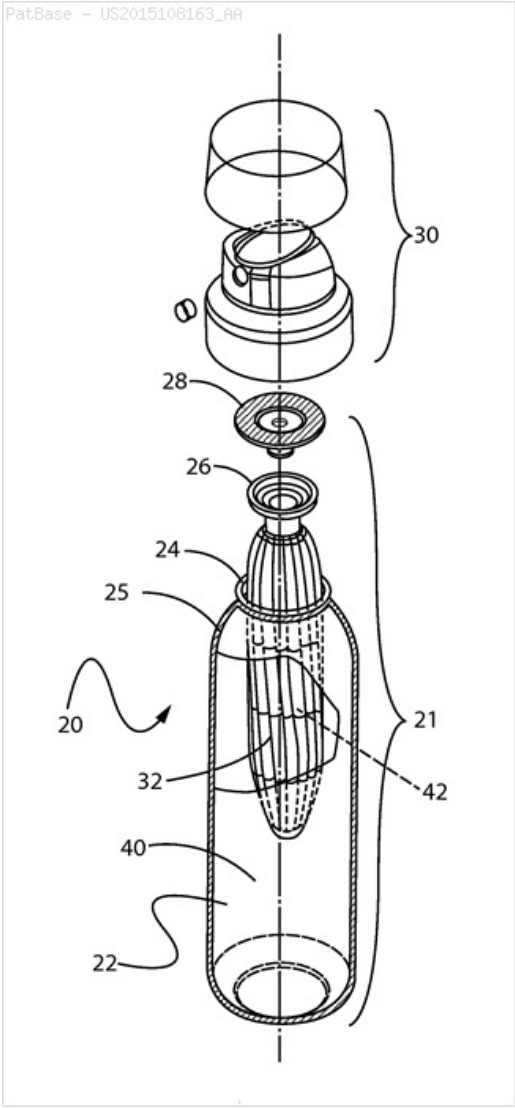
6) Family number: 59062038 (US2015108163A)

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Title: RECYCLABLE PLASTIC AEROSOL DISPENSER

Abstract: An aerosol dispenser. The aerosol dispenser is made from materials which can go into a single recycling stream having a single class of materials, as defined by the Society of the Plastics Industry, and particularly may exclusively comprise Class 1 materials with no flammable product/propellant present.

Classifications:
International (IPC 8-9): B05B9/04 B65D83/14 B65D83/32 B65D83/38 B65D83/40 B65D83/44 B65D83/48 B65D83/60 B65D83/62 B65D83/70 (Advanced/Invention); B65D35/22 B65D77/06 B65D83/40 (Advanced/Non-invention)
CPC: B65D83/70 B65D83/72 Y02W30/807 B65D83/40 B65D83/14 B65D83/32 B65D83/38 B65D83/62 B65D83/752 B65D35/22 B65D77/065 B65D83/44 B65D83/48
US: 1/1 222/1 222/95



Family:

Publication number	Publication date	Application number	Application date
CN105658540 A	20160608	CN201480058271	20141014
CN105658540 B	20190618	CN201480058271	20141014
CN110291023 A	20190927	CN201880009106	20180216
CN110342119 A	20191018	CN201910406660	20141014
EP3060495 A1	20160831	EP20140789484	20141014
JP2016534948 T2	20161110	JP20160525572T	20141014
MX2016004662 A1	20160722	MX20160004662	20141014
US2015108163 AA	20150423	US20130061149	20131023
US2016167867 AA	20160616	US20160049361	20160222
US2017166391 AA	20170615	US20170444356	20170228
US2018099809 AA	20180412	US20170836946	20171211
US2018370715 AA	20181227	US20180120493	20180904
US2019168954 AA	20190606	US20190271918	20190211
US9296550 BB	20160329	US20130061149	20131023
US9919862 BB	20180320	US20160049361	20160222
US10081483 BB	20180925	US20170836946	20171211
WO15061071 A1	20150430	WO2014US60327	20141014
WO18160369 A1	20180907	WO2018US18465	20180216

Priority:

US20110108198 20110516 US20130061149 20131023 CN201480058271 20141014

WO2014US60327 20141014 US20160049361 20160222 US20170444356 20170228
US20170836946 20171211 WO2018US18465 20180216 US20180120493 20180904
US20190271918 20190211

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO

Inventor(s): (std): ZEIK DOUGLAS BRUCE ; SMITH SCOTT EDWARD ; ZEIK DOUGLAS ; SMITH SCOTT

Inventor(s): DOUGLAS BRUCE ZEIK ; SCOTT EDWARD SMITH

Agent(s): HOYNG ROKH MONEGIER LLP; TANI AND ABE PC; LARRY L; STEVEN W; LOPEZ ABBEY A; GUFFEY TIMOTHY B; KREBS JAY A

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

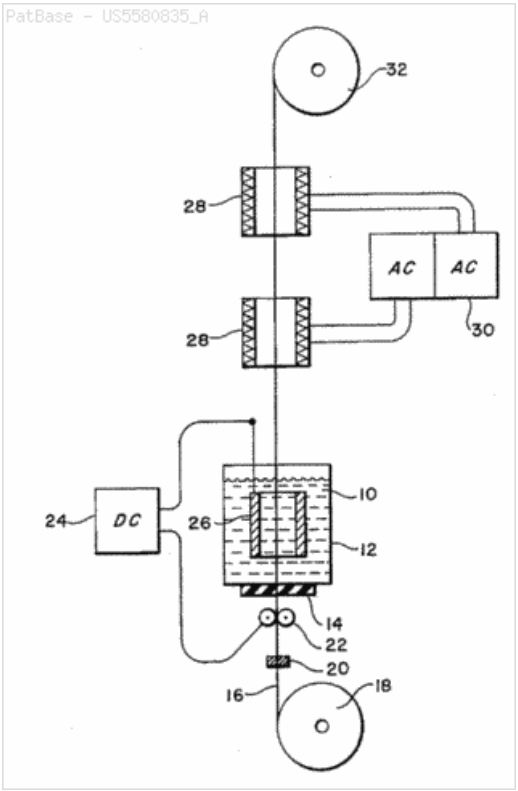
7) Family number: 12873041 (US5580835A)

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Title: Ceramic fibers produced by electrophoretic deposition of particles

Abstract: Ceramic fibers may be produced by the electrophoretic deposition of metal oxide upon a conductive fiber core, which core may be subsequently removed.

Classifications:
International (IPC 8-9): C04B35/622 (Advanced/Invention); C04B35/622 (Core/Invention)
International (IPC 1-7): B05D3/02 C04B35/03
CPC: C04B35/62231
European: C04B35/622F2
US: 252/315.7 427/320 427/376.2 427/419.2 427/437 427/443.2 501/95 501/95.1



Family:

Publication number	Publication date	Application number	Application date
US5580835 A	19961203	US19910637848	19910107

Priority:

US19910637848 19910107

Probable Assignee: RPW ACQUISITION LLC

Assignee(s): (std): UNITED TECHNOLOGIES CORP

Assignee(s): US BANK NATIONAL ASSOCIATION ; WELLS FARGO BANK NATIONAL ASSOCIATION ; AEROJET ROCKETDYNE INC ; AEROJET ROCKETDYNE INC F K A AEROJET GENERAL CORPORATION ; RPW ACQUISITION LLC ; UNITED TECHNOLOGIES A CORP OF DELAWARE CORP

Inventor(s): (std): WRIGHT ROBERT J ; DALZELL JR WILLIAM J ; SPENCE JARRETT L

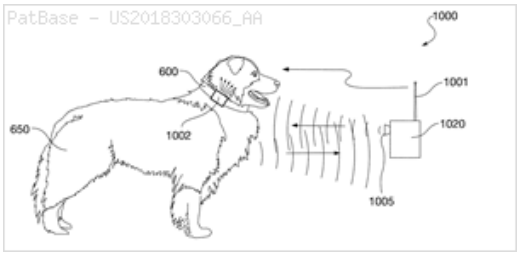
8) Family number: 71613045 (US2018303066A)

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Title: PET SPRAY TRAINING SYSTEM

Abstract: An animal behavior modification device is provided. The device includes a sound, vibration or motion sensor that is configured to generate electrical signals in response to an occurrence. The device may include a filter, which is tuned to recognize a dog barking event, and generate an electrical signal in response to recognizing an input signal indicative of a dog's bark. The device further includes a canister that holds a deterrent fluid under pressure. The device additionally comprises a motor module configured to rotate a shaft in response to the electrical signal from the filter. The canister has a spray nozzle for releasing fluid that affects the dog's senses. In response to rotating the shaft, the spray nozzle is depressed. A method of modifying the behavior of an animal using the device is also provided herein.

Classifications:
International (IPC 8-9): A01K15/00 A01K15/02 A01K27/00 B05B12/12 B05B9/04 (Advanced/Invention)
CPC: B05B12/122 B65D83/262 A01K15/022 A01K27/001 A01K27/009 B05B9/0413 B05B12/12
US: 1/1 119/718



Family:

Publication number	Publication date	Application number	Application date
AU2018254552 AA	20181025	AU20180254552	20180420
US2018303066 AA	20181025	US20170493190	20170421
US2019054484 AA	20190221	US20180167907	20181023
WO18195407 A1	20181025	WO2018US28547	20180420

Priority:

US20170493190 20170421 WO2018US28547 20180420 US20180167907 20181023

Probable Assignee: RADIO SYSTEMS CORP

Assignee(s): (std): RADIO SYSTEMS CORP

Inventor(s): (std): WEIMIN BAI ; REINHART ANTHONY J

Agent(s): FB RICE PTY LTD; SAWRIE DAVID F

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

9) Family number: 53486052 (US2014248450A)

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Title: COMPOSITE STRUCTURE, METHOD FOR PRODUCING SAME, PACKAGING MATERIAL AND FORMED PRODUCT USING SAME, AND COATING LIQUID

Abstract: The method disclosed includes: a step (I) of preparing a dispersion liquid (S) including an aluminum compound (A); a step (II) of mixing the dispersion liquid (S) and a predetermined phosphorus compound (B) so as to prepare a coating liquid (U); a step (III) of applying the coating liquid (U) onto the base (X) so as to form a precursor layer of the layer (Y); and a step (IV) of subjecting the precursor layer to heat treatment at a temperature of 110 degrees centigrade or more so as to form the layer (Y). The aluminum compound (A) can be formed by adding an acid to a solution including an aluminate. The number of moles (NM) of aluminum atoms derived from the aluminum compound (A) and the number of moles (NP) of phosphorus atoms derived from the phosphorus compound (B) satisfy 0.8?(NM)/(NP)?4.5.
Classifications:
International (IPC 8-9): B05D7/24 B32B19/02 B32B27/32 B32B27/36 B32B7/12 B32B9/00 B32B9/04 B65D30/02 B65D65/40 B65D81/24 C01B25/36 C04B12/02 C04B28/34 C08J7/04 C08J7/06 C08K3/32 C09D1/00 C09D201/06 C09D201/08 C09D5/00 C09D5/02 C09D7/12 C09D7/40 (Advanced/Invention);
C01B25/36 C04B111/00 C08K3/32 (Advanced/Non-invention)
CPC: C09D5/00 C08J7/047 C08J7/06 C08J2367/02 C08J2429/04 C08J2377/02 B32B7/12 B32B9/00 B32B9/04 B32B27/32 B32B27/36 B32B2307/7244 B32B2307/7246 B32B2439/70 C01B25/36 C04B28/34 C04B28/342 C04B2111/00482 C04B2111/00525 C04B2111/00534 C08J7/045 C08J2443/02 C08K2003/327 C09D1/00 C09D5/002 C09D5/024 C09D7/1216 C09D7/1258 C04B14/303 C09D7/61 C09D7/66 Y10T428/1307 Y10T428/1334 Y10T428/1393 Y10T428/25
US: 106/287.17 220/62.11 383/105 427/372.2 428/323 428/34.3 428/35.2 428/36.91 524/145 524/417

Family:

Publication number	Publication date	Application number	Application date
AU2012319846 AA	20130411	AU20120319846	20121005
AU2012319846 BB	20171026	AU20120319846	20121005
CN103958078 A	20140730	CN201280059820	20121005
CN103958078 B	20160420	CN201280059820	20121005
EP2764928 A1	20140813	EP20120837706	20121005
EP2764928 A4	20150729	EP20120837706	20121005
EP2764928 B1	20190724	EP20120837706	20121005
IN03175CN2014 A	20150703	IN2014CN03175	20140425
JP2013051288 A1	20150330	JP20130537430T	20121005
JP5941474 B1	20160629	JP20130537430T	20121005
KR102033298 B1	20191017	KR20147012188	20121005
KR20140080529 A	20140630	KR20147012188	20121005
US2014248450 AA	20140904	US20120349594	20121005
US9914837 BB	20180313	US20120349594	20121005
WO13051288 A1	20130411	WO2012JP06435	20121005

Priority:

JP20110221099 20111005 WO2012JP06435 20121005

Probable Assignee: KURARAY CO LTD

Assignee(s): (std): KURARAY CO ; KURRAY CO LTD

Assignee(s): KURARAY CO LTD ; KURRAY CO

Inventor(s): (std): OMODA MAMORU ; YOSHIDA KENTARO ; NAGANO SUEHIKO ; OSHITA TATSUYA ; SASAKI RYOICHI

Agent(s): PHILLIPS ORMONDE FITZPATRICK; BRUNETTI FABRIZIO; HUBERT PHILIPPE; OBLON MCCLELLAND MAIER AND NEUSTADT LLP; KAMADA KOICHI ET AL

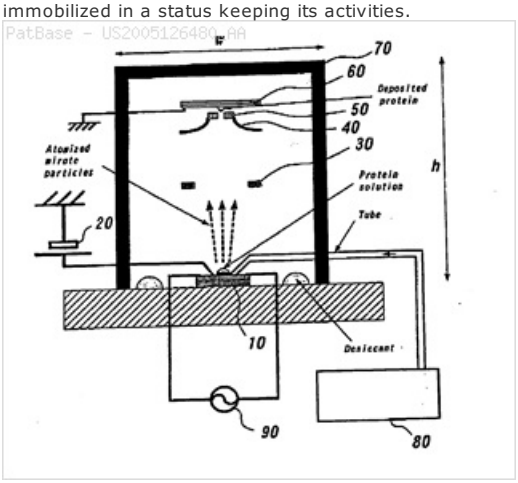
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR

MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

10) Family number: 28564059 (US2005126480A)

Title: IMMOBILIZING DEVICE

Abstract: A solution containing a sample is provided vibration by a vibrating element, the solution is atomized in a status retaining its activities as minute particulate substances, and the solution and/or the atomized minute particulate substances are electrically charged by wires applied a high voltage. Then, the particles are dried out during flying, the particles are deposited onto a substrate grounded by electrostatic force, and to be immobilized in a status keeping its activities.



Classifications:
International (IPC 8-9): B01J19/00 B05B17/06 B05B5/00 B05B5/025 B05B5/057 B05C19/04 B06B1/06 B06B1/08 G01N33/543 H02N13/00 (Advanced/Invention);
B01J19/00 B05B17/04 B05B5/00 B05B5/025 B05C19/00 B06B1/02 B06B1/06 G01N33/543 H02N13/00 (Core/Invention)
International (IPC 1-7): B05B17/06 B05B5/057 B05C5/02 B06B1/06 B06B1/08 H02N13/00
CPC: B05B17/0607 G01N33/54353 B01J19/0046 B01J2219/00362 B01J2219/00378 B01J2219/0043 B01J2219/00497 B01J2219/00527 B01J2219/00585 B01J2219/00596 B01J2219/00605 B01J2219/0061 B01J2219/00619 B01J2219/00628 B01J2219/0063 B01J2219/00637 B01J2219/00659 B01J2219/00677 B01J2219/00722 B01J2219/00725 B05B5/00 B05B17/0646 B05B17/0676
European: B01J19/00C B05B17/06B5F B05B17/06B7F B05B5/00 G01N33/543F L01J219/00C10B2 L01J219/00C10B4 L01J219/00C2D24B L01J219/00C2D3B L01J219/00C2D6 L01J219/00C2L L01J219/00C2L8 L01J219/00C4B L01J219/00C4H L01J219/00C4L12 L01J219/00C4L2 L01J219/00C4L24 L01J219/00C4L2D L01J219/00C4L2H2H L01J219/00C4L2J4 L01J219/00C4L2J6 L01J219/00C4L2L4 L05B17/06B99B30
US: 118/301 118/50.1 118/620 118/621 118/625 118/629

Family:

Publication number	Publication date	Application number	Application date
AT424935 E	20090315	AT20020779996T	20021105
AU2002344455 AA	20030519	AU20020344455	20021105
AU2002344455 BB	20070301	AU20020344455	20021105
DE60231540 D1	20090423	DE20026031540	20021105
EP1452239 A1	20040901	EP20020779996	20021105
EP1452239 A4	20070314	EP20020779996	20021105
EP1452239 B1	20090311	EP20020779996	20021105
JP2003136005 A2	20030513	JP20010339593	20011105
JP4025055 B2	20071219	JP20010339593	20011105
US2005126480 AA	20050616	US20050493880	20050222
US7516714 BB	20090414	US20050493880	20050222
WO03039759 A1	20030515	WO2002JP11530	20021105

Priority:
JP20010339593 20011105 WO2002JP11530 20021105

Probable Assignee: FUENCE CO LTD

Assignee(s): (std): FUENCE CO LTD ; FYUUENSU KK ; HIGUCHI TOSHIRO ; RIKEN ; YAMAGATA YUTAKA ; KIM JOON WAN ; INOUE KOZO ; RIKAGAKU KENKYUSHO ; RIKEN WAKO

Assignee(s): KIM JOON W ; INST OF PHYSICAL AND CHEMICAL RES ; FUENCE CO

Inventor(s): (std): YAMAGATA YUTAKA ; HIGUCHI TOSHIRO ; KIM JOON WAN ; INOUE KOZO ; KIN SHUNKAN ; KIM JOON W

Inventor(s): JOON WAN KIM ; YUTAKA YAMAGATA ; KOZO INOUE ; TOSHIRO HIGUCHI ; KIM JOON

Agent(s): GRIFFITH HACK; FENLON CHRISTINE LESLEY; SUGIMURA KOSAKU; OLIFF AND BERRIDGE PLC

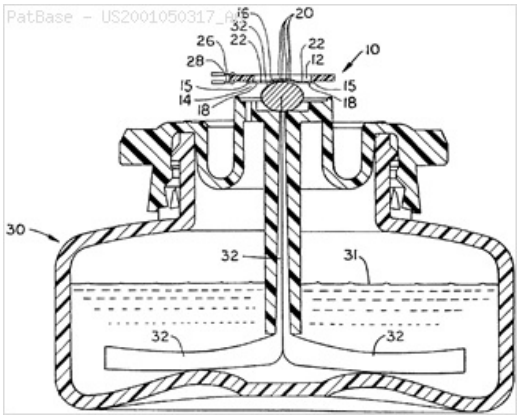
Designated states: AT AU BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR US

11) Family number: 30084060 (US2001050317A)

Title: Control system for atomizing liquids with a piezoelectric vibrator

Abstract: There is described a battery driven atomizer in which an alternating voltage is applied to a piezoelectric actuation element to cause it to expand and contract and vibrate an atomizing membrane. The alternating voltage is controlled to produce a high amplitude vibration during a first portion of a drive period, to initiate atomization, and thereafter to produce a lower amplitude vibration to sustain atomization during the remainder of the drive period. The frequency of the alternating voltage is swept repeatedly during each drive period.

Classifications:
International (IPC 8-9): A61L9/00 A61L9/14 B05B B05B17/00 B05B17/04 B05B17/06 B05D1/02 (Advanced/Invention);
B05B17/06 (Advanced/Non-invention)
International (IPC 1-7): A61L9/00 B05B1/08 B05B17/04 B05B17/06 B05B3/04 B05B9/00 B05D1/02 B06B1/06
CPC: A01M1/205 A61L9/14 B05B17/0646 B05B17/0684
European: A01M1/20C2L2 A61L9/14 B05B17/06B5F B05B17/06B7F2 L05B17/06B99B30B
US: 239/102.1 239/102.100P 239/102.2 239/102.200S 239/142 239/142S 239/326 239/4 239/99 239/99S



Family:

Publication number	Publication date	Application number	Application date
AR030524 AA	20030827	AR2000P100980	20000306
AR031470 AB	20030924	AR2001P105375	20011116
AT258827 E	20040215	AT20000917748T	20000306
AU200038676 A1	20000921	AU20000038676	20000306
AU200038676 A5	20000921	AU20000038676	20000306
AU767322 B2	20031106	AU20000038676	20000306
BRPI0008730 A	20020409	BR2000PI08730	20000306
BRPI0008730 B1	20100209	BR2000PI08730	20000306
CA2371873 AA	20010830	CA20002371873	20000306
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CN1153630 C	20040616	CN20008006969	20000306
CN1349438 A	20020515	CN20008006969	20000306
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EP1159079 B1	20040204	EP20000917748	20000306
ES2209857 T3	20040701	ES20000917748T	20000306
HK1043752 A1	20050225	HK20020105461	20020724
HK1043752 B	20050225	HK20020105461	20020724
JP2002537985 T2	20021112	JP20000602406T	20000306
JP4666769 B2	20110406	JP20000602406T	20000306
KR100477423 B1	20050323	KR20017011313	20000306
KR20020003198 A	20020110	KR20017011313	20000306
MXPA01008926 A1	20030721	MX2001PA08926	20000306
NZ514272 A	20030829	NZ20000514272	20000306
PL194790 B1	20070731	PL20000351479	20000306
PL351479 A1	20030422	PL20000351479	20000306
TW510827 B	20021121	TW20000103990	20000526
US2001050317 AA	20011213	US20010905953	20010717
US6296196 BA	20011002	US20000519560	20000306
US6439474 BB	20020827	US20010905953	20010717
WO0051747 A1	20000908	WO2000US05783	20000306
ZA200107249 A	20020902	ZA20010007249	20010831

Priority:

US19990124155P 19990305 US20000519560 20000306 WO2000US05783 20000306
US20010905953 20010717 KR20017011313 20010905

Probable Assignee: S C JOHNSON AND SON INC

Assignee(s): (std): S C JOHNSON ; S C JOHNSON AND AMP SON INC ; JOHNSON AND SON INC S C ; S C JOHNSON AND SON INC

Assignee(s): S C JOHNSON AND SON INC 1525 HOWE STREET RACINE WISCONSIN 53403 5011 ; MYERS GARY E ; NAVIN ERIC R ; SC JOHNSON AND SON INC ; SC JOHNSON AND ; SON INC ; SCJOHNSON AND SON INC ; CLARK GEORGE A ; DENEN DENNIS J ; HEADINGS LEON M ; JAMES TODD L

Inventor(s): (std): DENEN DENNIS J ; MYERS GARY E ; HEADINGS LEON M ; CLARK GEORGE A ; NAVIN ERIC R ; JAMES TODD L ; HEADINGS LEON E ; NAVIN ERICK R ; DENNIS J DENEN ; GARY E MYERS ; GEORGE A CLARK ; JAMES L ; HEADINGS M ; MYERS E ; CLARK A ; NAVIN R ; DENEN J

Inventor(s): TODD L JAMES ; ERIC R NAVIN ; NAVIN ERIC R AND ; DENNIS J DENEN J GARY E MYERS E GEORGE A CLARK A ; LEON M HEADINGS M ERIC R NAVIN R ; TODD L JAMES L ; LEON M HEADINGS

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; BERESKIN AND PARR LLP; 1 34 10

Designated states: AT AU BE BR CA CH CN CY DE DK ES FI FR GB GR IE IT JP KR LI LU MC MX NL NZ PL PT SE ZA

12) Family number: 28577065 (US2003099684A)

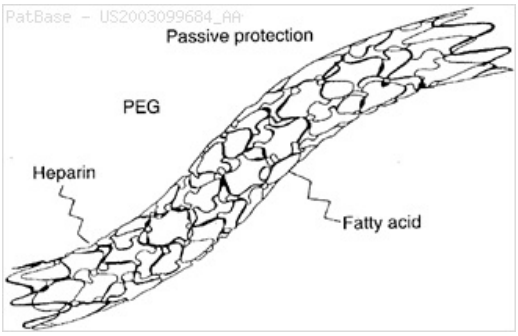
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Title: ELECTROPOLYMERIZABLE MONOMERS AND POLYMERIC COATINGS ON IMPLANTABLE DEVICES

Abstract: The invention provides an electropolymerizable monomer comprising a chemically bound active agent, said agent being capable of affecting animal tissue.

Classifications:
International (IPC 8-9): A61F13/00 A61F2/02 A61F2/06 A61F2/82 A61K9/14 A61L27/28 A61L27/54 A61L29/16 A61L31/10 A61L31/16

A61L33/00 B05C9/08 B05D3/00 B05D3/14 C07D207/30 C07D333/02 C07D409/00 C08F26/06 C08G61/12 C08J7/00 C08K13/08 C08L65/00 C25B9/02 (Advanced/Invention);
A61L31/00 (Advanced/Non-invention);
A61L31/08 A61L31/14 A61L33/00 (Core/Invention);
A61F A61L (Subclass/Invention)
International (IPC 1-7): A61F2/00 A61L31/10 A61L31/16 A61L33/00 C08G59/68 C08G65/04 C08G73/06
CPC: A61L31/10 A61L31/16 A61L33/0088 A61L2300/416 A61L2300/42 A61L2300/602 A61L2300/606 A61L2300/62 C09D5/4476 A61L27/042 A61L27/34 A61L31/022 A61L2300/80 A61L2400/12 A61L2420/02 C07D207/327 C08F2/58 C08F226/06
European: A61L27/04A A61L27/34 A61L31/02B A61L31/10 A61L31/16 A61L33/00R4 C07D207/327 C08F2/58 C08F226/06 C09D5/44F K61L300/416 K61L300/420 K61L300/602 K61L300/606 K61L300/620 K61L300/80 K61L400/12 K61L420/02
US: 118/620 118/620S 424/422 424/422P 424/423 424/423P 424/426 424/489 424/489S 427/444 427/444S 427/487 427/487S 525/326.7 525/326.700S 525/326.8 525/326.800S 528/408 528/422 528/423 548/527 548/527S 548/560 548/560S 549/29 549/29S



Family:

Publication number	Publication date	Application number	Application date
AT317711 E	20060315	AT20000979913T	20001130
AU200117289 A1	20010612	AU20010017289	20001130
AU200117289 A5	20010612	AU20010017289	20001130
AU2006271184 AA	20070125	AU20060271184	20060719
CA2615094 AA	20080111	CA20062615094	20060719
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Priority:

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Probable Assignee: YISSUM RESEARCH DEVELOPMENT CO OF HEBREW UNIV OF JERUSALEM

Assignee(s): (std): YISSUM RES DEV CO ; ELUTEX LTD ; ABRAHAM JACOB DOMB ; DOMB ABRAHAM J ; EFRAT BIOPOLYMERS LTD

Assignee(s): YISSUM RESEARCH DEVELOPMENT CO AOF HEBREW UNIV OF ; ABRAHAM J DOMB ; ABRAHAM JACKOB DOMB ; YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREWU ; YISSUM RESEARCH DEVELOPMENT COMPANY AOF THE HEBREW ; YISSUM RESEARCH DEVELOPMENT CO OF HEBREW UNIV ; YISSUM RESEARCH DEVELOPMENT CO OF HEBREW UNIV OF J ; YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREWUNIVERSITY OF JERUSALEM ; YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREWUNIVERSITY OF JERUSALEM JERUSALEM JERUSALAJIM ; YISSUM RESEARCH DEVELOPMENT COMPANY AOF THE HEBREW UNIVERSITY OF JERUSALEM ; YISSUM RESEARCH DEVELOPMENT CO OF HEBREW UNIV OF JERUSALEM ; YISSUM RESEARCH DEVELOPMENT CO OF HEBREWUNIVERSITY OF JERUSALEM JERUSALEM JERUSALAJIM

Inventor(s): (std): DOMB ABRAHAM J ; DOMB J

Inventor(s): ABRAHAM J DOMB ; DOMB ABRAHAM ; ABRAHAM JACKOB DOMB

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; SPRUSON AND FERGUSON; INTEGRAL IP; SCHMITZ JEAN MARIE ET AL; MARTIN D MOYNIHAN PRTSI INC; MARTIN D MOYNIHAN D B A PRTSI INC

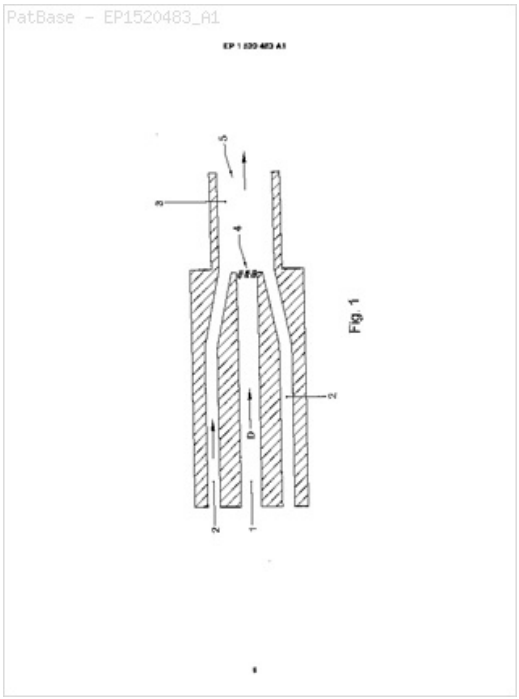
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13) Family number: 32502071 (EP1520483A1) © PatBase

Title: METHOD AND APPARATUS FOR FORMING GAS BUBBLES IN A LIQUID PRODUCT

Abstract: A method for forming gas bubbles in a liquid product, wherein different gas beams are spouted into the product. In addition, the invention provides an apparatus for forming gas bubbles in a liquid product, in particular according to a method of one of the preceding claims, the apparatus being provided with a mixing space (3) to mix the product with gas, the apparatus comprising spouting means (1, 4) to spout different gas beams into the mixing space (3).
Classifications:
International (IPC 8-9): A23C9/154 A23J3/08 A23L1/00 A23L1/19 A23L2/54 A23P1/16 A23P30/40 A47J31/44 A47J43/12 B05B7/00 (Advanced/Invention);
A23J3/00 A23L1/00 A23L1/19 A23L2/52 A23P1/10 A47J31/44 A47J43/00 B05B7/00 (Core/Invention)
International (IPC 1-7): A23C9/154 A23J3/08 A23L1/00 A23L1/19 A23P1/16 A47J31/44 A47J43/12 B05B7/00

CPC: A23P30/40 A23L9/20 A23L2/54 A47J43/126 A23J3/08 A23V2002/00 A23V2200/226
European: A23J3/08 A23L1/00P16 A23L1/19 A23L2/54 A23P1/16 A47J43/12F K23V2/00 K23V200/226



Family:

Publication number	Publication date	Application number	Application date
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Priority:

NL20031024433 20031002 NL20031024434 20031002 NL20031024435 20031002
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Probable Assignee: FRIESLAND BRANDS BV

Assignee(s): (std)**:** FRIESLAND BRANDS B V ; FRIESLAND BRANDS BV

Inventor(s): (std)**:** POORTINGA ALBERT THIJS ; KOMAN BOTERBLOM HENDRIKA ; WIJNEN MARIA ELISABETH ; ALBERT THIJS POORTINGA ; LUITE THEODOOR NETJES ; TJEERD JONGSMA ; HENDRIKA KOMAN BOTERBLOM ; MARIA ELISABETH WIJNEN ; NETJES LUITE THEODOOR ; JONGSMA TJEERD ; WIJNEN MARIA E

Agent(s): WINCKELS JOHANNES HUBERTUS F; JANSEN CORNELIS MARINUS

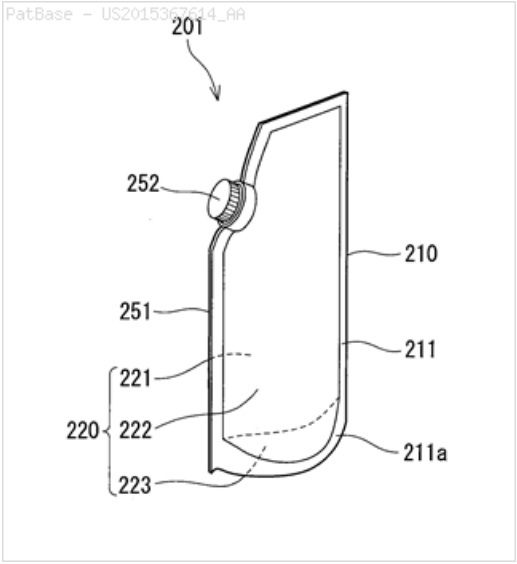
Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

14) Family number: 57188078 (US2015367614A)

Title: PRODUCT COMPRISING PACKAGING MATERIAL COMPRISING MULTILAYER STRUCTURE

Abstract: A product provided includes a packaging material, and the packaging material includes a multilayer structure. The multilayer structure includes at least one base (X), at least one layer (Y), and at least one layer (Z). The layer (Y) contains an aluminum atom. The layer (Z) contains a polymer (E) containing a monomer unit having a phosphorus atom. The multilayer structure includes at least one pair of the layer (Y) and the layer (Z) that are contiguously stacked. This product is excellent in gas barrier properties, and adapted to maintain the gas barrier properties at a high level even when subjected to physical stresses such as deformation and impact.
Classifications:
International (IPC 8-9): A61J1/10 B05D7/00 B32B1/02 B32B15/08 B32B15/082 B32B15/20 B32B27/00 B32B27/06 B32B27/08 B32B27/10 B32B27/18 B32B27/28 B32B27/30 B32B27/32 B32B27/34 B32B27/36 B32B7/02 B32B9/00 B32B9/04 B65D30/02

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C08F230/02 (Advanced/Non-invention)
CPC: C08F130/02 B32B2307/7242 B32B27/06 B32B2307/724 B05D7/50 H05K5/0017 Y10T428/31935 Y10T428/31678 Y10T428/31993 B32B27/308 B32B2439/00 B32B2307/558 B32B2307/734 B32B2435/00 B32B2439/46 C09D143/02 B32B15/08 B32B15/20 B32B27/08 B32B27/10 B32B27/28 B32B27/32 B32B27/34 B32B27/36 B32B2255/10 B32B2255/20 B32B2255/205 B32B2307/7244 B32B2439/40 B32B2439/70 B32B2439/80 B32B2457/00 B32B2457/12 B32B2457/20 B32B2457/202 B32B2457/206 C08F230/02 G02B1/14
US: 206/524.3 220/200 361/679.01 427/385.5 427/407.1 428/457 428/522 428/537.5 428/689 428/702 428/704



Family:

Publication number	Publication date	Application number	Application date
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IN07477DN2015 A	20160115	IN2015DN07477	20150821
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JP2015073748 A2	20150420	JP20130212244	20131009
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JP2015074472 A2	20150420	JP20130212240	20131009
JP2015074473 A2	20150420	JP20130212241	20131009
JP2015074474 A2	20150420	JP20130212242	20131009
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Probable Assignee: KURARAY CO LTD

Assignee(s): (std): KURARAY CO ; KURARAY CO LTD

Assignee(s): KURARAY CO LTD KURASHIKI SHI

Inventor(s): (std): OMODA MAMORU ; SASAKI RYOICHI ; YOSHIDA KENTARO ; OGI HIROYUKI ; NAKAYA MASAKAZU ; NAKATANI MASAKAZU ; OKI HIROYUKI ; HYODA MAMORU

Agent(s): SPRUSON AND FERGUSON; D YOUNG AND CO LLP; OBLON MCCLELLAND MAIER AND NEUSTADT LLP; KAMADA KOICHI

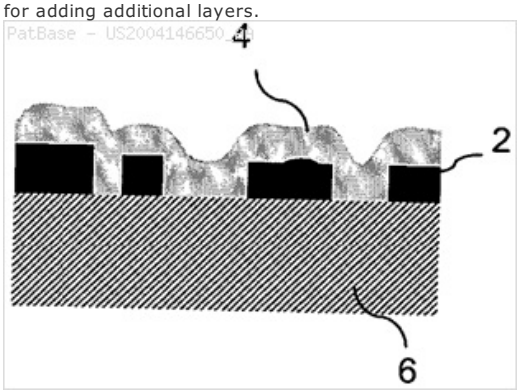
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15) Family number: 29787079 (US2004146650A)

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Title: EFAB METHODS AND APPARATUS INCLUDING SPRAY METAL OR POWDER COATING PROCESSES

Abstract: Various embodiments of the invention present techniques for forming structures via a combined electrochemical fabrication process and a thermal spraying process or powder deposition processes. In a first set of embodiments, selective deposition occurs via masking processes (e.g. a contact masking process or adhered mask process) and thermal spraying or powder deposition is used in blanket deposition processes to fill in voids left by selective deposition processes. In a second set of embodiments, after selective deposition of a first material, a second material is blanket deposited to fill in the voids, the two depositions are planarized to a common level and then a portion of the first or second materials is removed (e.g. by etching) and a third material is sprayed into the voids left by the etching operation. In both embodiments the resulting depositions are planarized to a desired layer thickness in preparation for adding additional layers.



Classifications:

International (IPC 8-9): A61B10/00 A61B17/00 A61B17/04 A61B17/14 A61B17/29 A61B17/32 B01J19/08 B05D1/32 B05D1/36 B05D5/00 B23K31/02 B23K35/12 B29B13/00 B29C33/40 B29C45/14 B29C65/00 B41C3/02 B81B3/00 B81C1/00 C23C28/00 C23C4/02 C25D1/00 C25D1/08 C25D1/10 C25D17/06 C25D5/00 C25D5/02 C25D5/10 C25D5/48 C25D5/52 G01K1/08 G01P1/02 G01P15/00 G01P15/08 G01P15/10 G01P15/125 G01R1/067 G01R3/00 G01R31/02 G01R31/305 H01J3/14 H01L21/288 H01L21/44 H01L21/768 H01P1/202 H01P11/00 H01P3/00 H01P3/06 H01P5/18 H01R12/00 H01R13/187 H01R13/62 H01R24/58 H01R9/00 H05K7/02 H05K7/20 (Advanced/Invention);
C25D1/00 G01R3/00 H05K3/46 (Advanced/Non-invention);
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International (IPC 1-7): B05D1/36 B05D3/10 C25D5/02 G01R1/06 G01R1/067 H01L21/70 H01L49/00

CPC: A61B10/0233 A61B10/0283 A61B10/06 A61B2017/32004 C23C28/021 C23C28/023 C23C28/028 B81C99/0095 C23C28/048 C23C28/322 C23C28/34 C23C28/345 C23C28/36 B81C1/00246 B81C2203/0735 C23C28/00 A61B10/0266 A61B10/04 A61B17/320016 A61B17/320783 A61B2010/0225 A61B2017/00243 A61B2017/320064 A61B17/0401 A61B17/0469 A61B17/0482 A61B17/0487 A61B2017/00526 A61B2017/0462 A61B2017/0488 A61B2017/0496 A61B2017/06052 A61B2017/06176 G06F17/5072 C23C4/02 C25D1/00 A61B2017/00345 C25D5/02 B81C1/00293 B81C1/00333 B81C2203/0145 C25D1/10 C25D7/123 G01R1/06738 G01R1/06755 G01R1/06716 G01R1/06722 G01R1/06711 G01R1/06727 G01R1/0675 G01R1/07357 G01R31/2886 Y10T29/49147 Y10T29/49204 Y10T29/49222 G01R31/02 H01L2924/15747 C23C4/01 B81C1/0038 H01L21/2885 H01L21/76885 A61B17/149 B81C1/0019 B81C1/00126 B81C2201/0181 B81C2201/0188 B81C2201/019 Y10T156/10 B81C99/0085 B81C2201/0107 B81C2201/0109 B81C2201/0197 B81C3/002 B81B2201/042 B81C3/008 B81C2203/051 G01P1/023 G01P15/0802 G01P15/125 H01P1/202 H01P3/06 H01P5/183 H01P11/00 H01P11/005 H01P11/007 H05K3/4647 B33Y80/00 C25D5/022 C25D1/08 C25D5/10 H01R13/187 H01L24/72 G01R1/0483 G01R1/07342 G01R1/06733 Y10T29/49002 Y10T29/49016 Y10T29/49018 B33Y50/00 B33Y50/02 C25D5/00 C23C26/00 B33Y10/00 B33Y70/00 B23K35/0222 C23C18/1605 C23C18/1651 C25D1/003 C25D1/12 G01R1/06744 G01R1/07307 G01R1/07314 G01R3/00 H01L21/6835 H01L24/11 H01L24/12 H01L24/16 H01L24/81 H01L24/95 H01L2221/68313 H01L2221/68354 H01L2221/68363 H01L2224/0401 H01L2224/05568 H01L2224/10126 H01L2224/1147 H01L2224/11831 H01L2224/1184 H01L2224/1191 H01L2224/13017 H01L2224/13018 H01L2224/131 H01L2224/1403 H01L2224/81001 H01L2224/81054 H01L2224/81136 H01L2224/8121 H01L2224/8181 H01L2224/81815 H01L2924/00013 H01L2924/0002 H01L2924/01004 H01L2924/01005 H01L2924/01006 H01L2924/01013 H01L2924/01015 H01L2924/0102 H01L2924/01022 H01L2924/01024 H01L2924/01027 H01L2924/01029 H01L2924/01033 H01L2924/01045 H01L2924/01047 H01L2924/01049 H01L2924/0105 H01L2924/01073 H01L2924/01074 H01L2924/01075 H01L2924/01078 H01L2924/01079 H01L2924/01082 H01L2924/01322 H01L2924/01327 H01L2924/014 H01L2924/09701 H01L2924/10253 H01L2924/14 H01L2924/1461 H01L2924/19041 H01L2924/19042 H01L2924/19043 H01L2924/30107 H01L2924/3011 H01L2924/3025 H01L2924/3651

European: A61B10/02P6 A61B10/04 A61B10/06 A61B17/04A A61B17/04G A61B17/04K A61B17/3207S A61B17/32E A61K31/00 A61K31/66 A61K38/17 B23K35/02D B81C1/00C12F B81C1/00C14C10 B81C1/00C14Z B81C1/00C2Z B81C1/00C4Z B81C1/00D99 B81C1/00F2Z B81C3/00D B81C3/00Z B81C99/00R10 B81C99/00R4 C23C26/00 C23C28/00 C23C4/00B C23C4/02 C25D1/00 C25D1/08 C25D1/10 C25D11/02 C25D17/00 C25D17/14 C25D5/02 C25D5/02B C25D5/10 C25D5/34 C25D5/38 C25D5/50 C25D7/00 C25D7/12 G01N33/50D2 G01N33/50D2B G01N33/50D2E G01N33/50D2F14 G01N33/50D2F4 G01P1/02B G01P15/08A G01P15/125 G01R1/04S3U G01R1/067C G01R1/067C2 G01R1/067C2C G01R1/067C3 G01R1/067C3A G01R1/067C3B G01R1/067C3C G01R1/067C4 G01R1/073B4 G01R1/073B8 G01R3/00 G01R31/28G5 H01L21/288E H01L21/683T H01L21/768C6 H01L24/11 H01L24/12 H01L24/15 H01L24/16 H01L24/81 H01L24/95 H01P1/202 H01P11/00 H01P11/00B3 H01P11/00C H01P3/06 H01P5/18C H01R13/187 H01R24/58 K61B10/02M K61B10/02P

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US: 156/249 156/249S 174/261 204/224R 204/227S 204/297.05 205/118 205/122 205/134S 205/135 205/145 205/170 205/181 205/182 205/183 205/183S 205/220 205/221 205/222 205/223 205/67 205/67P 205/70 205/70P 205/80 205/80P 216/39 228/180.22 228/215 228/245 228/245P 250/397 250/397P 257/E21.159 257/E21.523 264/219 264/221 264/259 264/271.1 264/299 264/313 264/317 264/318 264/328.1 29/842 29/874 29/884 324/751 324/754 324/755.01 324/755.010P 324/755.07 324/755.070P 324/755.11 324/755.110P 324/756.02 324/756.03 324/756.030P 324/758.04 324/758.040S 324/761 324/762 324/762.03 324/762.05 333/160 333/206 333/206P 333/208 333/243S 333/262S 343/792.500S 361/689 361/689P 361/807 361/809 361/809S 382/141 382/144 382/145 382/147 382/151 424/141.100P 427/258 427/264 427/265 427/270 427/271 427/272 427/282 427/307 427/402 427/446 427/457 427/457S 438/652 438/652P 438/670 438/689 439/81 514/17.700S 514/9.600S 600/562 600/564 600/564P 600/567 600/567S 600/568 600/570 606/1 606/150 606/150P 606/151 606/151S 606/167 606/167P 606/176 606/176S 606/180 606/1P 606/1S 606/207 606/207S 606/222 606/222S 73/514.29 73/514.32 977/732 977/732S

Family:

Publication number	Publication date	Application number	Application date
TW200426253 A	20041201	TW20040112898	20040507
TW200533926 A	20051016	TW20040141484	20041230
TW200534519 A	20051016	TW20040141482	20041230
TW200535425 A	20051101	TW20040141481	20041230
TW200536039 A	20051101	TW20040141480	20041230
TWI244512 B	20051201	TW20040112898	20040507
US2004146650 AA	20040729	US20030697597	20031029
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US7878385 BB	20110201	US20070929539	20071030

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US20010338638P 20011203 US20010340372P 20011206 US20020364261P 20020313
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Probable Assignee: MICROFABRICA INC

Assignee(s): (std): ARAT VACIT ; BANG CHRISTOPHER A ; COHEN ADAM L ; MICROFABRICA ; MICROFABRICA INC ; SMALLEY DENNIS R ; ZHANG GANG

Assignee(s): MICROFABRICS INC ; NEURONOVA AB CO REGISTRATION NO 556703 0118 ; MICROFABRICA INCORPORATED ; FOR INFORMATION IND INST ; MEMGEN CORP

Inventor(s): (std): LARSEN WILLA M ; KRUGLICK EZEKIEL J J ; CHEN RICHARD T ; ZHANG GANG ; KIM KIEUN ; KUMAR ANANDA H ; LILIAN WIKSTROM ; PER LINDQUIST ; THOMPSON JEFFREY A ; HARRIET RONNHOLM ; ALEX MERCER ; FOLK CHRIS ; LEMBRIKOV PAVEL B ; FEINBERG DANIEL I ; KRUGLICK EZEKIEL J ; LOCKHARD MICHAEL S ; EVANS JOHN D ; LOCKARD MICHAEL S ; COHEN ADAM L ; BANG CHRISTOPHER A ; FRODIS URI ; SMALLEY DENNIS R ; ARAT VACIT ; DIXON JOHN C ; BROWN ELLIOTT R ; GROSSER MORTON ; BARTON ROGER W

Inventor(s): LARSEN WILLA ; DIXON JOHN ; FEINBERG DANIEL ; KRUGLICK EZEKIEL JJ ; KRUGLICK EZEKIEL ; SMALLEY DENNIS ; COHEN ADAM ; CHEN RICHARD ; LEMBRIKOV PAVEL ; KUMAR ANANDA ; BANG CHRISTOPHER ; LOCKARD MICHAEL ; THOMPSON JEFFREY ; LOCKHARD MICHAEL

Agent(s): MICROFABRICA INC ATT DENNIS R SMALLEY; DENNIS R SMALLEY MICROFABRICA INC; DENNIS R; SMALLEY DENNIS R

16) Family number: 60600083 (US2015297776A)

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Title: METHOD AND SYSTEM OF A NETWORK OF DIFFUSERS INCLUDING A LIQUID LEVEL SENSOR

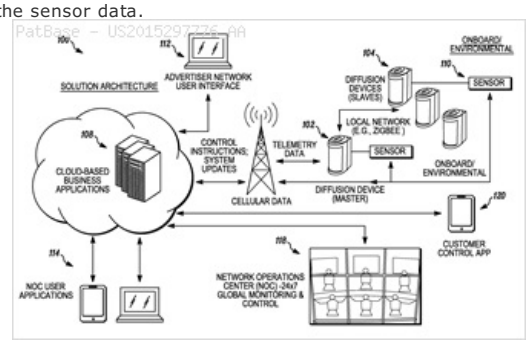
Abstract: Systems and methods for managing scent in an environment include disposing a plurality of scent diffusion devices within an environment, wherein the diffusion devices include a communications facility that enables transmitting signals to and receiving signals from a remote computer and disposing at least one sensor within the environment that transmits sensor data to the remote computer. At least one scent parameter for scenting an environment is received at the remote computer. The remote computer controls diffusion of a liquid from a source of a liquid in fluid communication with at least one of the plurality of scent diffusion devices to achieve the scent parameter. Controlling includes setting or adjusting an operation parameter of the scent diffusion device in response to the sensor data.

Classifications:

International (IPC 8-9): A01G27/00 A61L2/00 A61L9/00 A61L9/015 A61L9/04 A61L9/12 A61L9/14 A62C13/62 B01F3/04 B05B12/08 B05B12/12 B05B7/24 B05B7/26 G05B15/02 G06Q10/06 G06Q10/08 G08B13/22 G08B21/18 G08B23/00 (Advanced/Invention); B05B7/24 G01F23/30 (Advanced/Non-invention)

CPC: A61L2209/20 A61L2209/11 A61L2/00 A61L9/00 A61L2209/133 A61L2209/135 A61L9/14 A61L9/015 A61L2209/111 B01F3/04021 B01F2215/009 B05B7/2416 B05B7/2424 B05B12/08 B05B12/081 B05B12/12 G01F23/72 G08B23/00 G05B15/02 G08B13/22 G08B21/182 A61L9/12 A61L2209/16 B05B7/2489 B05B7/262 G01F23/30 G06Q10/06 G06Q10/08 Y02A40/166

US: 1/1 239/1 239/11 239/71 239/74 239/8 261/78.2 422/4 700/90



Family:

Publication number	Publication date	Application number	Application date
BR112016024154 A2	20170815	BR20161124154	20150417
CA2950592 AA	20161124	CA20152950592	20150417
CN106456820 A	20170222	CN201580032558	20150417
CN106456820 B	20180525	CN201580032558	20150417
EP3131591 A1	20170222	EP20150780002	20150417
EP3131591 A4	20171213	EP20150780002	20150417
US2015297776 AA	20151022	US20150689378	20150417
US2015297777 AA	20151022	US20150689407	20150417
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Probable Assignee: THOMAS A CONROY

Assignee(s): (std)**:** BECKER TODD H ; CONROY THOMAS A ; SIEGEL THOMAS G ; PATSTONE CHRISTOPHER H ; LANGTON DAVID L ; THOMAS A CONROY ; TODD H BECKER ; THOMAS G SIEGEL

Inventor(s): (std)**:** CONROY THOMAS A ; SIEGEL THOMAS G ; BECKER TODD H ; THOMAS A CONROY ; TODD H BECKER ; THOMAS G SIEGEL ; LANGTON DAVID L ; PATSTONE CHRISTOPHER H

Agent(s): RICHES MCKENZIE AND HERBERT LLP; FINDLAY ALICE ROSEMARY; GTC LAW GROUP PC AND AFFILIATES; LANDO AND ANASTASI LLP; IRIZARRY STACEY

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

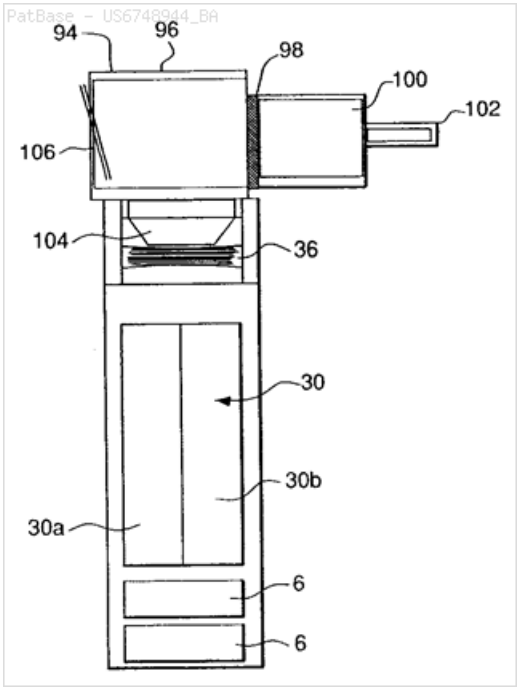
17) Family number: 15774089 (US6748944B)

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Title: ULTRASONIC DOSAGE DEVICE AND METHOD

Abstract: An ultrasonic dosage device having an enclosure for providing a medication in the form of a nebulized mist, including an energy source positioned within the enclosure and a vibration device with a switch for applying electrical energy from the energy source to the vibration device. An assembly is attached to the enclosure and has a membrane disposed between the vibration device and the medication for containing the medication and maintaining the medication in contact with the vibration device only by way of the membrane, whereby the membrane is vibrated and the medication is thereby converted into the mist by vibrations transmitted to the medication by way of the membrane when power is applied to the vibration device.

Classifications:
International (IPC 8-9): A61M15/00 A61M15/02 B05B17/06 B05B5/16 (Advanced/Invention);
A61M15/00 A61M15/02 B05B17/04 B05B5/00 (Core/Invention)
International (IPC 1-7): A61M11/00 A61M15/02 A61M16/10 B05B17/06
CPC: A61M11/001 A61M15/0085 A61M15/02 B05B5/1691 B05B17/0607
European: A61M15/00F A61M15/02 B05B17/06B B05B5/16C
US: 128/200.14 128/200.16 128/200.21 128/202.25



Family:

Publication number	Publication date	Application number	Application date
AU2001261144 AA	20011120	AU20010261144	20010502
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Priority:

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Probable Assignee: DELLAVECCHIA MICHAEL ANTHONY

Assignee(s): (std)**:** CLAUDE PEZZOPANE ; DELLAVECCHIA MICHAEL ANTHONY ; MICHAEL ANTHONY DELLAVECCHIA ; PEZZOPANE CLAUDE

Inventor(s): (std)**:** DELLAVECCHIA MICHAEL ANTHONY ; PEZZOPANE CLAUDE

Inventor(s): MICHAEL ANTHONY DELLAVECCHIA ; CLAUDE PEZZOPANE

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 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

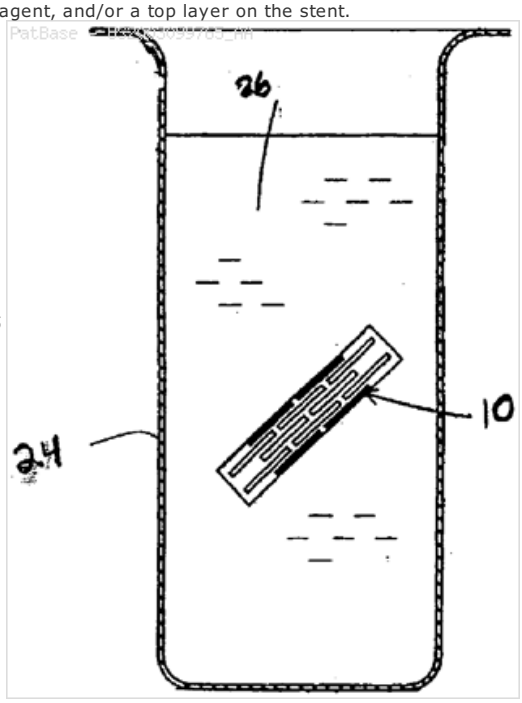
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18) Family number: 30044089 (US2003099765A)

Title: PROCESS FOR COATING A SURFACE OF A STENT

Abstract: The invention relates to a method of coating a surface of a stent by contacting the stent with a coating solution containing a coating material, inserting a thread through the lumen of the stent, and producing relative motion between the stent and the thread to substantially remove coating material located within the openings of the stent. Eliminating or minimizing coating material located within the openings preserves the functionality of the stent. The method can be used to apply a primer layer, a polymer, either with or without a therapeutic agent, and/or a top layer on the stent.

Classifications:
International (IPC 8-9): A61F2/82 A61K45/00 A61L27/00 A61L31/10 A61L33/00 A61M31/00 A61P29/00 A61P31/04 A61P35/00 A61P37/06 A61P7/02 B05D1/40 B05D1/42 B05D7/20 (Advanced/Invention); A61F2/06 A61F2/90 (Advanced/Non-invention); A61F2/82 A61K45/00 A61L27/00 A61L31/08 A61P29/00 A61P31/00 A61P35/00 A61P37/00 A61P7/00 (Core/Invention); A61F2/06 (Core/Non-invention)
International (IPC 1-7): A61K45/00 A61L2/00 A61L27/00 A61L33/00 A61M29/00 A61P29/00 A61P31/04 A61P35/00 A61P37/06 A61P7/02 B05D1/02 B05D1/18 B05D1/36 B05D1/40 B05D1/42 B05D7/20
CPC: A61L31/10 A61F2/91 A61L2420/02
European: A61L31/10 K61F2/06S6N2 K61F2/91 K61L420/02
US: 427/2.1 427/2.24 427/2.240P 427/2.25 427/2.28 427/2.3 427/21 427/23 427/230 427/231 427/232 427/233 427/234 427/235 427/355 427/355S 427/388.1 427/388.100S 427/402 427/402S 427/421 427/425 427/427.5 427/427.500S 427/430.1



Family:

Publication number	Publication date	Application number	Application date
AU2002362014 AA	20030610	AU20020362014	20021122
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WO03045456 A1	20030605	WO2002US37522	20021122

Priority:
US20010994256 20011126 WO2002US37522 20021122 US20020320795 20021216

Probable Assignee: VASCULAR CONCEPTS HOLDINGS LTD
Assignee(s): (std): JAYARAMAN SWAMINATHAN ; VASCULAR CONCEPT HOLDINGS LTD
Assignee(s): VASCULAR CONCEPTS HOLDINGS LTD ; VASCULAR CONCEPT HOLDINGS LIMITED
Inventor(s): (std): JAYARAMAN SWAMINATHAN ; SWAMINATHAN JAYARAMAN
Agent(s): PHILLIPS ORMONDE FITZPATRICK; GOUDREAU GAGE DUBUC; LAVERY DE BILLY LLP
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

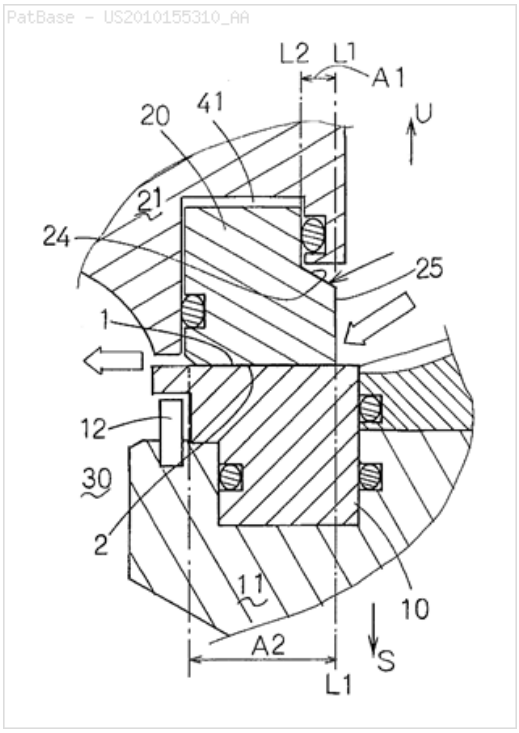
19) Family number: 42799091 (US2010155310A)

Title: METHOD FOR PRODUCING NANOPARTICLES BY FORCED ULTRATHIN FILM ROTARY PROCESSING

Abstract: The present invention provides a method for producing nanoparticles, which comprises maintaining a minute space of 1 mm or less between two processing surfaces capable of approaching to and separating from each other and being rotating relative to each other, allowing the minute space maintained between the two processing surfaces to serve as a flow path of a processed fluid thereby forming a forced thin film of the processed fluid and separating nanoparticles in the forced thin film.

Classifications:
International (IPC 8-9): A61J3/00 A61K31/00 A61K31/192 A61K31/196 A61K31/436 A61K31/5383 A61K31/57 A61K31/58 A61K47/08 A61K47/10 A61K47/12 A61K47/14 A61K47/18 A61K47/20 A61K47/24 A61K47/26 A61K47/28 A61K47/34 A61K47/42 A61K8/06 A61K8/14 A61K9/00 A61K9/10 A61K9/107 A61K9/127 A61K9/14 A61K9/16 A61K9/50 A61K9/70 A61P11/06 A61P15/00 A61P17/00 A61P27/02 A61P37/06 B01D61/20 B01D63/16

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Family:

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CN103331112 B	20161102	CN201310188602	20080704
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EP3106227 A1	20161221	EP20160174263	20080807
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TW200918156 A	20090501	TW20080125645	20080707
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Priority:

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US20180884021 20180130

Probable Assignee: M TECHNIQUE CO LTD

Assignee(s): (std): ENDMURA MASAKAZU ; ENOMURA MASAKAZU ; M TECH CO LTD ; TECH CO LTD ; M TECHNIQUE CO LTD

Assignee(s): TECH CO ; TECH CO LTD M ; MTECHNIQUE CO ; MTECHNIQUE CO LTD ; M TECHNIQUE CO LTD IZUMI SHI ; M TECHNIQUE CO ; M TECH CO

Inventor(s): (std): ENDMURA MASAKAZU ; ENOMURA MASAKAZU ; ENOMURA SHINICHI ; MASAKAZU ENOMURA

Agent(s): MARKS AND CLERK LUXEMBOURG LLP; ROBERTSON JAMES ALEXANDER; CARPMAEL ROBERT MAURICE CHARLES; MAURY RICHARD PHILIP; BIRCH STEWART KOLASCH AND BIRCH; BIRCH STEWART KOLASCH AND BIRCH LLP; SAMEJIMA TAKENOBU

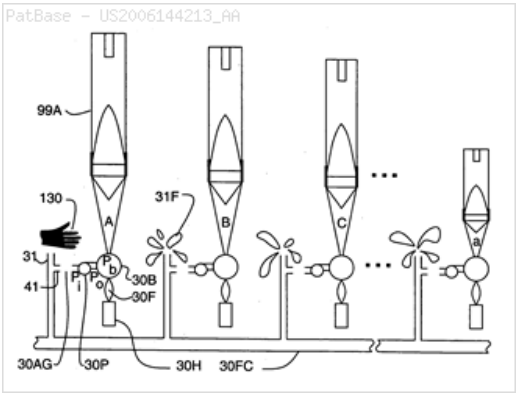
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20) Family number: 33100091 (US2006144213A)

Title: FLUID USER INTERFACE SUCH AS IMMERSIVE MULTIMEDIATOR OR INPUT/OUTPUT DEVICE WITH ONE OR MORE SPRAY JETS

Abstract: A fluid user interface is presented for applications such as immersive multimedia. In one embodiment, one or more sprays or jets create an immersive multimedia environment in which a participant can interact within the immersive multimedia environment by blocking, partially blocking, diverting, or otherwise engaging with a fluid, to create computational input. When the fluid is air, a keyboard can be implemented on cusions of air coming out of various nozzles or jets. When the fluid is water, the invention may be used in environments such as showers, baths, hot tubs, waterplay areas, gardens, and the like to create a fun, playful, or wet user-interface. In some embodiments, the spraying is computationally controlled, so that the spray creates a tactile user-interface for the control of such devices as new musical instruments. These may be installed in public fountains to result in a fluid user interface to music by playing in the fountains. The invention may also be used in a setting like a karaoke bar, in which participants perform music by playing in a fountain while they sing. Small self contained embodiments of the invention may exist as pool toys, bath toys, or decorative fountains that can sit on desk tops, or the like.

Classifications:
International (IPC 8-9): B05B17/08 G01F1/00 G01L7/00 G06F3/01 G06F3/02 G06F3/023 G06F3/041 G06F3/042 G06K11/00 G09G5/00 G10B1/02 G10B1/06 G10B3/00 G10D17/00 G10D7/02 G10H1/18 G10H1/32 G10H1/34 G10H3/03 G10H3/06 (Advanced/Invention); B05B17/00 G01F1/00 G01L7/00 G06F3/02 G06F3/023 G06F3/041 G06K11/00 G09G5/00 G10B1/00 G10B3/00 G10D17/00 G10D7/00 G10H1/34 G10H3/00 (Core/Invention)
CPC: G06F3/011 G06F3/016 G06F3/0421 G10H1/344 G10H2220/195 G10H2220/401 G10H1/0008 G10H2220/155 G10D17/00 G10H3/24 G10H2220/405 G10H2230/051 G10H2230/061 G10H2230/355 G10H1/12 G10H1/34 G10H2220/305 G10H2220/561
European: G06F3/00B8 G06F3/01B G06F3/01F G06F3/033Z2B G06F3/042B G10D17/00 G10H1/00M G10H1/12 G10H1/34 G10H1/34C G10H3/24 S10H220/155 S10H220/195 S10H220/305 S10H220/401 S10H220/405 S10H220/561 S10H230/051 S10H230/061 S10H230/355
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Family:

Publication number	Publication date	Application number	Application date
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CA2517501 AA	20070309	CA20052517501	20050909
CA2633679 AA	20091206	CA20082633679	20080606
US2006144213 AA	20060706	US20050302504	20051214
US2009223345 AA	20090910	US20090469391	20090520
US2009241753 AA	20091001	US20090479767	20090606
US2012011990 AA	20120119	US20110230514	20110922
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US8294019 BB	20121023	US20090469391	20090520

Priority:

CA20042499784 20041230 CA20052517501 20050909 US20050302504 20051214
CA20082633679 20080606 US20080059481P 20080606 US20090469391 20090520
US20090479767 20090606 US20110230514 20110922

Probable Assignee: MANN W STEPHEN G

Assignee(s): (std): MANN STEVE ; MANN W S G ; MANN W STEPHEN G

Inventor(s): (std): MANN STEVE ; MANN W S G ; MANN W STEPHEN G

Inventor(s): MANN W ; MANN W SG

Agent(s): NA; SMART AND BIGGAR; MICHAEL RIES; MICHAEL

21) Family number: 43616095 (WO09098570A2)

Title: LIQUID-FEEDING METHOD OF AN ATOMIZING DEVICE

Abstract: The invention concerns an atomizing process in air of a first liquid (36a) comprising a solvent and an active

product immiscible with the first liquid, the method including the steps of: placing the first liquid (36a) in contact with the active product, mixing the first liquid with the active product to obtain a substantially homogeneous and unstable mixture (36), and atomizing said mixture before the liquid separates from the active product, during an atomization cycle.

Classifications:
International (IPC 8-9): A61L9/14 B05B17/06 B05B9/03 B05D1/34 (Advanced/Invention);
A61L9/14 B05B17/04 B05B9/03 B05D1/00 (Core/Invention)
CPC: A61L9/14 B05B17/0607 B05B17/0676
European: A61L9/14 B05B17/06B B05B17/06B7F L05B17/06B99B30

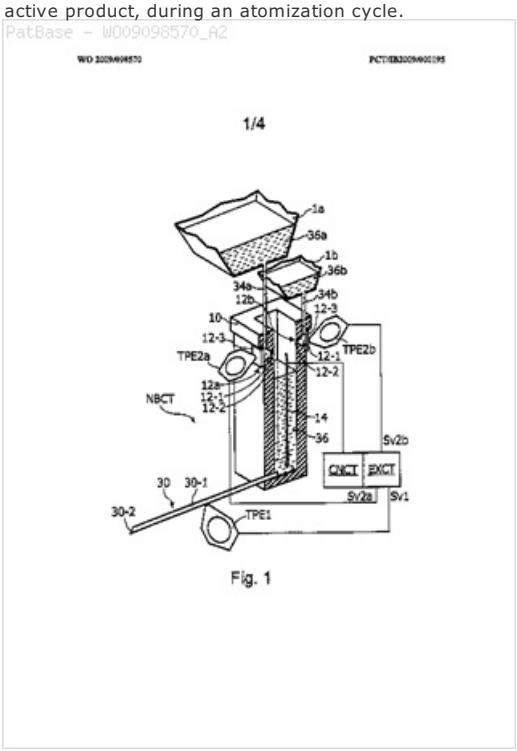


Fig. 1

Family:

Publication number	Publication date	Application number	Application date
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WO09098570 A2	20090813	WO2009IB00195	20090204
WO09098570 A3	20091119	WO2009IB00195	20090204

Priority:
FR20080000587 20080204 WO2009IB00195 20090204

Probable Assignee: OSMOOZE SA

Assignee(s): (std): MILLET JEAN CLAUDE ; OSMOOZE ; OSMOOZE SA

Assignee(s): OSMOOZE SOCIETE ANONYME

Inventor(s): (std): MILLET JEAN CLAUDE

Inventor(s): JEAN CLAUDE MILLET

Agent(s): MARCHAND ANDRE; OMNIPAT; MARCHAND ANDRE ET AL

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

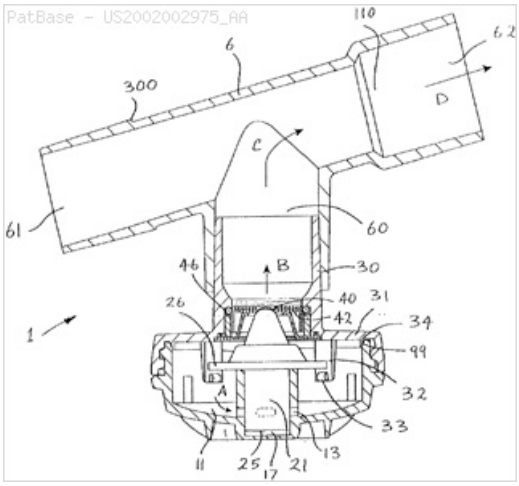
22) Family number: 30142097 (US2002002975A) © PatBase

Title: APPARATUS AND METHODS FOR THE DELIVERY OF MEDICAMENTS TO THE RESPIRATORY SYSTEM

Abstract: An apparatus for delivery of a medicament to the respiratory system comprises a reservoir that is adapted to hold a liquid medicament that is to be delivered to a respiratory system. An aerosol generator is provided that is adapted to aerosolize the liquid medicament. A liquid supplier is used to deliver the liquid medicament from the reservoir to the aerosol generator. A connector is operably coupled to the aerosol generator and comprises a gas conduit having an inlet, and an outlet, and an aerosol supply conduit. The aerosol generator is configured to provide the aerosolized liquid medicament into the gas conduit through the aerosol supply conduit, and the gas conduit is adapted to pass gases to entrain the aerosolized liquid medicament.

Classifications:
International (IPC 8-9): A61J1/06 A61K A61K31/557 A61K31/57 A61K31/7036 A61K45/00 A61K47/02 A61K47/04 A61K9/12 A61K9/72 A61M A61M11/00 A61M11/02 A61M11/06 A61M15/00 A61M16/00 A61M16/01 A61M16/08 A61M16/10 A61M16/20 A61P11/00 A61P31/04 A61P31/10 A61P31/12 A61P33/02 A62B7/00 B05B11/00 B05B17/06 B05B7/24 B05B7/26 B05B7/28 B65D1/09 B65D83/04 B65D85/42 (Advanced/Invention);
A61M16/00 A61M16/04 A61M16/06 B05B15/00 B05B17/06 B65D1/09 (Advanced/Non-invention);
A61J1/06 A61K47/02 A61K9/12 A61M11/00 A61M15/00 A61M16/00 A61M16/08 A61M16/10 B05B17/04 B05B7/24 B65D1/09 (Core/Invention);
A61M16/00 A61M16/04 A61M16/06 B05B15/00 (Core/Non-invention);
A61K A61M (Subclass/Invention)
International (IPC 1-7): A61K47/04 A61K9/12 A61M11/00 A61M11/06 A61M15/00 A61M16/00 A61M16/08 A61M16/10 A62B18/00 A62B7/00 A62B9/00 B05B17/06 B05D7/14 B05D83/06 B65B1/04 B65D1/02

CPC: Y10S206/828 Y10S215/03 A61M15/009 B05B17/0607 A61M15/0031 A61M15/0033 A61M15/0028 B05B17/0646 A61J1/065 A61J2205/10 A61J2205/60 A61M2205/6054 B65D1/095 B65D2203/00 A61M16/04 A61M16/06 A61M2205/8206 A61M2205/8262 A61M2209/082 A61M16/08 A61M16/201 A61M16/049 A61M16/024 A61M15/00 A61M15/0085 A61M2016/0024 A61M2205/52 A61M2205/6045 A61M2205/6072 A61K9/0078 A61K31/7036 A61M11/00 A61M11/005 A61M16/0833 A61M16/0858 A61M16/1065 A61M16/14 A61M16/20 A61M16/208 A61M2016/0021 A61M2016/0027 A61M2205/3561 A61M2205/3569
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Family:

Publication number	Publication date	Application number	Application date
AT376851 E	20071115	AT20010928171T	20010504
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Priority:

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Probable Assignee: AEROGEN INC

Assignee(s): (std): AEROGEN IRELAND LTD ; AEROGEN LTD ; BRIONES VICTOR ; BITDINGER RALF ; FINK JAMES B ; IVRI EHUD ; DUNNE PAUL ; MORAN DECLAN ; CORKERY KEVIN J ; GIBBONS KEITH ; POWER JOHN S ; POWER JOHN SYLVESTER ; POWER JOHN ; SMITH NIALL ; O SULLIVAN GAVAN ; AEROGEN INC ; NOVARTIS PHARMA AG ; NOVARTIS AG

Assignee(s): POYNTER RICHARD Q ; RAPP DAVID ; NEKTAR THERAPEUTICS ; AEROGEN IRELAND LIMITED ; SF CAPITAL PARTNERS LTD ; KLIMOWICZ MICHAEL ; LOEFFLER JOSEPH P

Inventor(s): (std): POWER JOHN S ; SMITH NIALL ; POWER JOHN ; FINK JAMES B ; IVRI EHUD ; DUNNE PAUL ; O SULLIVAN GAVAN ; MORAN DECLAN ; GIBBONS KEITH ; REGAN DESMOND ; KLIMOWICZ MICHAEL A ; POWER JOHN SYLVESTER ; KLIMOWICZ MICHAEL ; RAPP DAVID ; POYNTER RICHARD Q ; LOEFFLER JOSEPH P ; BITDINGER RALF ; BRIONES VICTOR ; PAUL DUNNE ; CORKERY KEVIN J ; MICHAEL KLIMOWICZ ; JOHN POWER ; JOHN SYLVESTER POWER ; NIALL SMITH ; JAMES B FINK ; DECLAN MORAN ; EHUD IVRI ; KEITH GIBBONS ; FINK JAMES ; SMITH NIALI

Inventor(s): JAMES FINK ; KLIMOWICZ MICHAEL LOS ALTOS ; FINK JAMES B SAN MATEO ; LOEFFLER JOSEPH ; POYNTER RICHARD ; CORKERY KEVIN ; O'SULLIVAN GAVAN ; GAVAN O SULLIVAN

Agent(s): PHILLIPS ORMONDE FITZPATRICK; GRIFFITH HACK; FETHERSTONHAUGH AND CO; GOWLING LAFLEUR HENDERSON LLP; O BRIEN JOHN AUGUSTINE; EVENS PAUL JONATHAN; BOULT WADE TENNANT; VALLEJO JUAN PEDRO; CARVAJAL Y ISABEL; UNGRIA JAVIER; CLT PATENT AND TRADEMARK HK LTD; WOLFF BREGMAN AND GOLLER; TOWNSEND AND TOWNSEND AND CREW LLP; NEKTAR THERAPEUTICS; NOVARTIS,CORPORATE INTELLECTUAL PROPERTY; NOVARTIS CORPORATE INTELLECTUAL PROPERTY; MICHAEL J; KILPATRICK TOWNSEND AND STOCKTON LLP

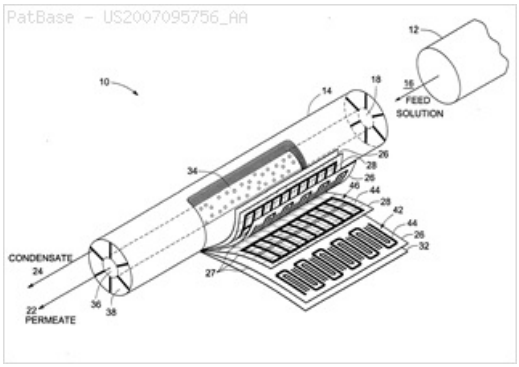
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23) Family number: 34434101 (US2007095756A)

Title: SYSTEM AND METHOD FOR REMOVAL OF CONTAMINANTS FROM FEED SOLUTION

Abstract: A system is provided for contaminant removal. The system includes an inlet for transmitting a contaminated solution and a reverse osmosis membrane having at least one flow modifier. The reverse osmosis membrane is configured to separate condensate and permeate from the contaminated solution. The system also includes a porous central tube for carrying the permeate and an outlet for the condensate. A method is also provided for removing contaminants from a solution.

Classifications:
International (IPC 8-9): B01D61/02 B01D67/00 B05D5/00 C23C4/12 (Advanced/Invention);
B01D61/02 B01D67/00 B05D5/00 C23C4/12 (Core/Invention)
CPC: B01D61/025 B01D63/10 B01D2313/086 B01D2325/06 B01D63/103 B01D2313/143 B01D2325/08
European: B01D61/02D B01D63/10 B01D63/10B L01D313/08D L01D313/14B L01D325/06 L01D325/08
US: 156/278 210/321.6 210/321.600S 210/456 210/456S 210/506 210/506S 210/639 210/639S 210/652 427/244 427/244S 427/448 427/448S 427/569 427/569S 427/596 427/596S



Family:

Publication number	Publication date	Application number	Application date
US2007095756 AA	20070503	US20050263167	20051031
US2009139650 AA	20090604	US20080333779	20081212

Priority:
US20050263167 20051031 US20080333779 20081212

Probable Assignee: GENERAL ELECTRIC CO

Assignee(s): (std): GEN ELECTRIC

Assignee(s): GENERAL ELECTRIC CO ; GENERAL ELECTRIC COMPANY ; SABIC INNOVATIVE PLASTICS IP BV ; CITIBANK NA ; CITIBANK NA COLLATERAL AGENT AS

Inventor(s): (std): HALL EDWARD J ; AVAGLIANO AARON J ; RUTKOWSKI STEPHEN F ; HARDWICKE CANAN U ; CHAMBERS GREGORY R ; RUTKOWSKI STEPHEN FRANCIS ; CHAMBERS GREGORY ROBERT ; AVAGLIANO AARON JOHN ; HARDWICKE CANAN USLU ; HALL EDWARD JOSEPH

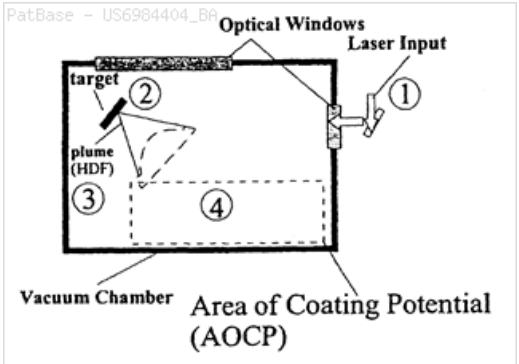
Agent(s): GENERAL ELECTRIC COMPANY, GLOBAL RESEARCH; GENERAL ELECTRIC COMPANY,GLOBAL RESEARCH; GENERAL ELECTRIC CO GLOBAL RESEARCH

24) Family number: 29474102 (US6984404B)

Title: METHODS FOR PREPARING COATED DRUG PARTICLES AND PHARMACEUTICAL FORMULATIONS THEREOF

Abstract: Disclosed are methods using pulsed laser ablation to prepare coated drug particles of uniform size and thickness. The coated drug particles ranged in size from several nanometers to several millimeters in diameter size, and were coated with organic polymer particle having average diameter sizes from about 1 to 50 nm. In illustrative embodiments, coated drug particles or drug delivery particles are disclosed comprising a biodegradable or biocompatible polymer coating having controlled thickness and controlled coating uniformity, that offer superior pharmaceutical properties for controlled delivery and increased bioavailability.

Classifications:
International (IPC 8-9): A61K A61K31/496 A61K31/573 A61K47/34 A61K9/00 A61K9/12 A61K9/14 A61K9/16 A61K9/50 A61K9/51 A61K9/72 A61L9/04 A61P11/00 A61P11/06 B05D B05D5/00 C23C C23C14/12 C23C14/22 C23C14/28 (Advanced/Invention);
A61K47/34 A61K9/00 A61K9/12 A61K9/14 (Advanced/Non-invention);
A61K31/496 A61K31/57 A61K47/34 A61K9/00 A61K9/12 A61K9/14 A61K9/16 A61K9/50 A61K9/51 A61K9/72 A61L9/04 A61P11/00 B05D5/00 C23C14/12 C23C14/22 C23C14/28 (Core/Invention);
A61K9/00 (Core/Non-invention);
A61K (Subclass/Invention)
International (IPC 1-7): A61K47/34 A61K9/00 A61K9/12 A61K9/14 A61K9/50 A61K9/51 A61K9/54 A61P11/00 A61P11/06 B05D00 B05D5/00 C23C14/22 C23C22
CPC: A61K9/008 A61K9/5031 A61K9/5089 A61K9/5153 C23C14/223 C23C14/28 A61K9/0075
European: A61K9/00M20B3 A61K9/50H6D A61K9/50P A61K9/51H6D4 C23C14/22B C23C14/28 K61K9/00M20B6 M23C14/22B



US: 424/45 424/46 424/490 424/493 424/494 424/497

Family:

Publication number	Publication date	Application number	Application date
AT317687 E	20060315	AT19990967110T	19991118
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AU200023457 A5	20000605	AU20000023457	19991118
AU757121 B2	20030206	AU20000023457	19991118
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CA2350894 AA	20010515	CA19992350894	19991118
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CN1348361 A	20020508	CN19998015649	19991118
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ES2257881 T3	20060801	ES19990967110T	19991118
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HK1043548 B	20060106	HK20020105386	20020722
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IL143234 A0	20020421	IL19990143234	19991118
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IN243886 B	20101112	IN2001DN00415	20010517
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PL349953 A1	20021021	PL19990349953	19991118
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WO0028969 A2	20000525	WO1999US27401	19991118
WO0028969 A3	20001109	WO1999US27401	19991118
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Priority:

US19980108847P 19981118 US19980110291P 19981130 WO1999US27401 19991118
US19990856415 19991118 US20010856415 20010702

Probable Assignee: OF FLORIDA RESEARCH FOUNDATION INC UNIV

Assignee(s): (std): FITZ GERALD JAMES M ; HOCHHAUS GUENTHER ; TALTON JAMES D ; SINGH RAJIV K ; UNIV FLORIDA

Assignee(s): OF FLORIDA UNIV ; OF FLORIDA RESEARCH FOUNDATION INC UNIV ; UNIVERSITY OF FLORIDA RESEARCH FOUNDATION INC ; UNIVERSITY OF FLORIDA GAINESVILLE ; UNIVERSITY OF FLORIDA GAINESVILLE FLORIDA ; OF FLORIDA GAINESVILLE UNIV ; OF FLORIDA OFFICE OF TECHNOLOGY LICENSING 208 GRINTER HALL UNIV ; FLORIDA RESEARCH FOUNDATION INC UNIV ; FLORIDA UNIV

Inventor(s): (std): TALTON JAMES D ; HOCHHAUS GUENTHER ; SINGH RAJIV K ; FITZ GERALD JAMES M ; TALTON J D ; HOCHHAUS G ; SINGH R K ; JAMES M FITZ GERALD ; JD TALTON ; JAMES D TALTON ; G HOCHHAUS ; RK SINGH ; GUENTHER HOCHHAUS ; RAJIV K SINGH ; SINGH K ; TALTON D ; FITZ GERALD JAMES M NAVY RESEA

Inventor(s): SINGH RAJIV KUMAR ; FITZ GERALD JAMES M NAVY RESEARCH LABORATORY ; J D TALTON ; R K SINGH

Agent(s): IP SOLVED ANZ PTY LTD; HODGKINSON MCINNES PATENTS; RICHES MCKENZIE AND HERBERT LLP; SHANGHAI PATENT AND TRADEMARK OFFICE ROOM 1804 TUNG WAI COMMERCIAL BUILDING 111; LUZZATTO AND LUZZATTO; REINHOLD COHN AND PARTNERS; AKERMAN SENTERFITT

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

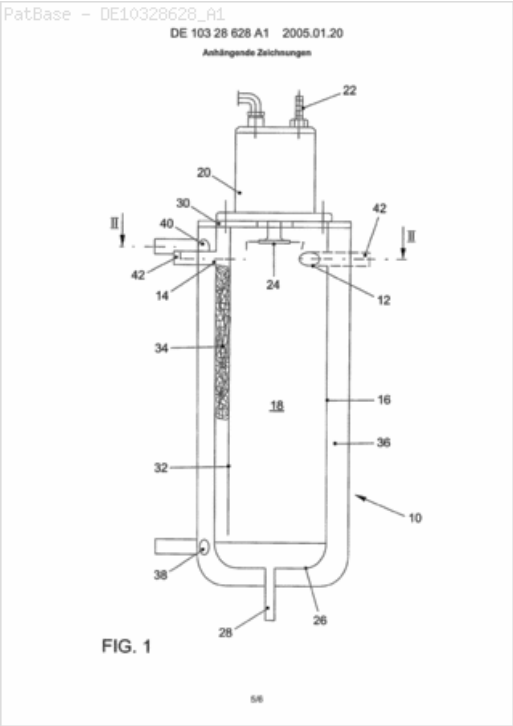
25) Family number: 31480104 (DE10328628A1)

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Title: ARRANGEMENT FOR MOISTURIZING GAS FLOW, ESPECIALLY PROCESS GAS FLOW IN FUEL CELL SYSTEM, HAS ATOMIZING DEVICE ON CONTAINER WITH AT LEAST ONE OPENING FOR FEEDING LIQUID

Abstract: Apparatus has a container (10) with at least one gas inlet opening (12), at least one gas outlet opening (14), at least one opening for feeding a liquid and an atomizing device (20) arranged on the container with the least one opening (22) for feeding liquid. The atomizing device is an ultrasonic atomizing device and there is a gas inlet opening that opens tangentially into the container. An independent claim is also included for the following: (a) a method of moisturizing a gas flow, especially a process gas flow in a fuel cell system.

Classifications:
International (IPC 8-9): H01M8/04 (Advanced/Invention);
B05B17/06 (Advanced/Non-invention);
H01M8/04 (Core/Invention);
B05B17/04 (Core/Non-invention)
International (IPC 1-7): B05B17/06 H01M8/04
CPC: H01M8/04126 B05B17/0607 H01M8/04119
European: H01M8/04C2E H01M8/04C2E1 L05B17/06B Y02E60/50



Family:

Publication number	Publication date	Application number	Application date
DE10328628 A1	20050120	DE20031028628	20030626

Priority:

DE20031028628 20030626

Probable Assignee: VOLKSWAGEN GROUP

Assignee(s): (std)**:** VOLKSWAGEN AG ; VOLKSWAGEN GROUP ; VOLKSWAGENWERK AG

Inventor(s): (std)**:** KUCKELKORN DANIEL HUGO ; MOEBIUS MAIK

26) Family number: 32562106 (US2009223513A)

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Title: AEROSOL DELIVERY SYSTEMS AND METHODS

Abstract: Methods and systems for aerosol delivery of agents to a patient are described herein. The present system can be used to administer various types of agents, such as a vaccine or other types of pharmaceutical substances. Certain embodiments of the present system utilize an actuator coupled to a disposable aerosolizing element that aerosolizes an agent for delivery to a patient when acted upon by the actuator. The aerosolizing element prevents the agent from contacting the actuator and other non-disposable components of the system so that little or no cleaning or maintenance is required. The present system also can include an aerosolization rate monitor that monitors the rate at which an agent is being aerosolized and provides feedback to the user to ensure that the proper dose is being administered.

Classifications:

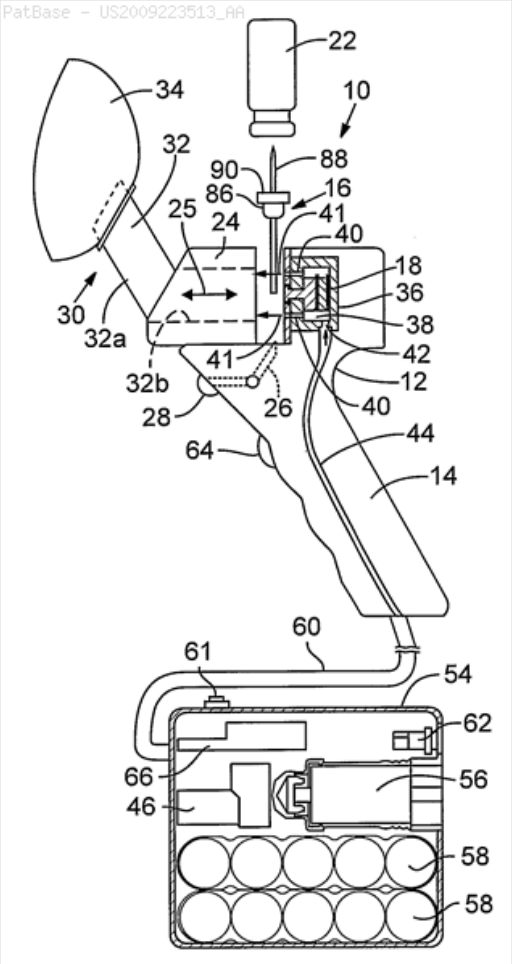
International (IPC 8-9): A61M A61M11/00 A61M11/02 A61M13/00 A61M15/00 A61M16/06 B05B B05B12/00 B05B12/08 B05B17/00 B05B17/06 (Advanced/Invention);
A61M11/00 A61M15/00 B05B17/04 (Core/Invention);
A61M B05B (Subclass/Invention)

International (IPC 1-7): A61M11/00 B05B17/06

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European: A61M11/00F A61M15/00D A61M15/00F B05B12/00S3D B05B12/08F B05B17/06B2 B05B17/06B5 B05B17/06B7F K61M15/00C1P K61M205/07 K61M205/33D K61M205/33M1 K61M205/82D4

US: 128/200.14 128/200.140P 128/200.140S 128/200.16 128/200.160P



Family:

Publication number	Publication date	Application number	Application date
AT483488 E	20101015	AT20050795574T	20050401
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Priority:

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Probable Assignee: CREARE INC

Assignee(s): (std): CREARE INC ; BARRY JAMES J ; BAGLEY MARK C ; ELKOUH NABIL A ; CT S FOR DISEASE CONTROL AND PREVENTION ; GOVERNMENT OF U S A REPRESENTED BY AS ; HEALTH AND HUMAN SERVICES CT S ; OF HEALTH AND HUMAN SERVICES CT S FOR DISEASE ; GOVERNMENT OF US SEC DEPT OF ; REPRESENTED BY SECRETARY O ; PAPANIA MARK J ; KNAUS DARIN ; GOVERNMENT OF US SEC RET ; GOVERNMENT OF U S A REPRESENTED BY SECRETARY OF DEPT OF HEALTH AND HUMAN SERVICES CT AS ; CT DISEASE CONTR AND PREVENTION ; GOVERNMENT OF US SEC DEPT OF HEALTH AND HUMAN SERVICES CT S FOR DISEASE CONTROL AND ; US GOVERNMENT ; US GOV ; TRABKA ROBERT ; US GOV HEALTH AND HUMAN SERV ; US HEALTH

Assignee(s): USA GOVERNMENT ; REPRESENTED BY SECRETARY OF DEPARTMENT OFT ; SECRETARY OF DEPARTMENT OF HEALTH AND HUMAN SERVICES US GOV AS ; REPRESENTED BY SECRETARY OF DEPARTMENT OFTHE US GOV ASTROL AND PREVENTION HEALTH AND HUMAN SERVICES CENTERS FOR DISEASE CON ; SECRETARY OF DEPARTMENT OF HEALTH AND HUMAN SERVICES CENTERS FOR DISEASE CONTROL AND PREVENTION AS US GOV ; SECRETARY OF DEPARTMENT OF HEALTH AND HUMAN SERVICES AS US GOV ; US SEC DEP OF HEALTH AND HUMAN SERVICES CENTERS FOR DISEASE CONTROL AND PREVENTION ; SEC DEP OF HEALTH AND HUMAN SERVICES CENTRES FOR DISEASE CONTROL AND PREVENTION AS US GOV ; REPRESENTED BY AS US GOV ; REPRESENTED BY SECRETARY OF DEPARTMENT OFTHE US GO ; REPRESENTED BY SECRETARY OF DEPARTMENT OF HEALTH A ; REPRESENTED BY SEC DEP OF HEALTH AND HUMAN SERVICE ; GOVERNMENT OF US SEC DEPARTMENT OF HEALTH AND HUMA ; REPRESENTED BY SEC DEP OF HEALTH AND HUMAN SERVICES AS US GOV ; REPRESENTED BY SECRETARY OF DEPARTMENT OF HEALTH AND HUMAN SERVICES CENTERS FOR DISEASE CONTROL AND PREVENTION US GOV AS ; REPRESENTED BY SECRETARY OF DEPARTMENT OF HEALTH AND HUMAN SERVICES AS US GOV ; GOVERNMENT OF USA REPRESENTED BY HEALTH AND HUMAN SERVICES CENTERS FOR DISEASE CONTROL AND AS ; HEALTH AND HUMAN SERVICES CENTERS FOR DISEASE CONTROL AND PREVENTION GOVERNMENT OF UNITEDSTATES OF AMERICA REPRESENTED BY SECRETARYOF DEPARTMENT OF AS ; OF HEALTH AND HUMAN SERVICES CENTERS FOR DISEASECONTROL AND PREVENTION AND CREARE INC ; GOVERNMENT OF USA REPRESENTED BY SECRETARY OF DEPARTMENT AS ; OF HEALTH AND HUMAN SERVICES CENTERS FOR DISEASE CONTROL AND PREVENTION AND CREARE INC ; REPRESENTED BY SEC RETARY OF DEPARTMENT OF HEALTH AND HUMAN SERVICES CENTERS FOR DISEA US GOV AS ; GOVERNMENT OF USA REPRESENTED BY THESECRETARY OF DEPARTMENT OF HEALTH AND HUMAN SERVICES CENTERS OF DISEASE CONTROL AND PREVENTION AS ; REPRESENTED BY SECRETARY OF DEPARTMENT OF HEALTH AND HUMAN SERVICES CENTERS FOR DISEASE CONTROL AND PREVENTION AS US GOV ; GOVERNMENT OF USA REPRESENTED BY THESECRETARY OF DEPARTMENT AS ; GOVERMMENT OF UNITED STATES OF AMERICA ASREPRESENTED BY SECRETARY OF DEPARTMENT OFHEALTH AND HUMAN SERVICES CENTERS FOR DISEASE CONTROL AND PREVENTION CREARE INC ; GOVERNMENT OF U S A REPRESENTED BY THESECRETARY OF DEPARTMENT AS ; CENTERS FOR DISEASE CONTROL AND PREVENTION ; AS US GOV ; ASR US GOV ; ASREPRESENTED BY SEC RET US GOV ; ASREPRESENTED BY SECRETARY OF DEPARTMENT OFTROL AN ; ASREPRESENTED BY SECRETARY OF DEPARTMENT OFHEALTH ; ASREPRESENTED BY SECRETARY OF DEPARTMENT OFHEALTH AND HUMAN SERVICES CENTERS FOR DISEASE CONTROL AND PREVENTION US GOV ; ASREPRESENTED BY SECRETARY OF DEPARTMENT OFHEALTH AND HUMAN SERVICES US GOV ; ASREPRESENTED BY SECRETARY OF DEPARTMENT OFTROL AND PREVENTION HEALTH AND HUMAN SERVICES CENTERS FOR DISEASE CON US GOV ; ASREPRESENTED BY SECRETARY OF DEPARTMENT OFHEALTH AND HUMAN SERVICES CENTRES FOR DISEASE CONTROL AND PREVENTION US GOV

Inventor(s): (std): JAMES J BARRY ; MARK C BAGLEY ; NABIL A ELKOUH ; MARK J PAPANIA ; ROBERTTRABKA ; BARRY JAMES ; PAPANIA MARK ; BAGLEY MARK ; ELKOUH NABIL ; ROBERT TRABKA ; DARIN KNAUS ; ROBERT PAPANIA MARK J BARRY JA ; TRABKA ROBERT ; KNAUS DARIN ; ELKOUH NABIL A ; BAGLEY MARK C ; BARRY JAMES J ; PAPANIA MARK J

Inventor(s): PAPANIA MARK J BARRY JAMES J BAGLEY MARK C ELKOUH

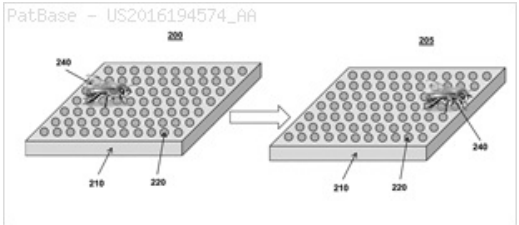
Agent(s): GRIFFITH HACK; SMART AND BIGGAR; HACKNEY NIGEL JOHN; IT AND T INT PATENT AND TRADEMARK AGENT LTD; SHIMIZU HATSUSHI; KLARQUIST SPARKMAN LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE 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

27) Family number: 62821108 (US2016194574A) © PatBase

Title: SEGMENTED COPOLYMER COMPOSITIONS AND COATINGS INCORPORATING THESE COMPOSITIONS

Abstract: Some variations provide a segmented copolymer composition comprising: fluoropolymer first soft segments that are (a,?)-hydroxyl-terminated and/or (a,?)-amine-terminated; polyester or polyether second soft segments that are (a,?)-hydroxyl-terminated and/or (a,?)-amine-terminated; isocyanate species possessing an isocyanate functionality of 2 or greater; and polyol or polyamine chain extenders or crosslinkers, wherein the molar ratio of the second soft segments to the first soft segments is less than 2.0. Exemplary segmented copolymers are disclosed. The segmented copolymer composition may be present in a low-friction, low-adhesion coating. Such a coating may be characterized by a coefficient of friction, measured at 90 percent relative humidity, less than 0.7. Such a coating may be characterized by an average kinetic delay of surface ice formation of at least 10 minutes at -10 degrees centigrade These coatings are useful as bugphobic and icephobic coatings.



Classifications:
International (IPC 8-9): A01N31/02 B05D1/02 B05D3/00 B05D5/08 B05D7/24 C07C31/18 C08G18/00 C08G18/10 C08G18/12 C08G18/38 C08G18/48 C08G18/50 C08G18/65 C08G18/66 C08G18/75 C08G65/22 C08G65/34 C08G81/00 C08G81/02 C08K3/16 C08K5/54 C08L71/02 C08L75/08 C09D127/12 C09D127/14 C09D127/16 C09D167/04 C09D171/02 C09D171/08 C09D175/02 C09D175/04 C09D175/08 C09D187/00 C09D201/04 C09D5/00 C09D5/16 C09D7/00 C09D7/12 C09D7/40 C09D7/61 C09D7/63 C09D7/65 C09J11/04 C09J11/06 C09J11/08 C09J127/12 C09K5/20 C10M107/38 C10M107/44 C10M111/02 C10M111/04 C10M125/26 C10M147/04 C10M169/04 C10M171/04 C10M171/06 C11C3/00 H01B1/12 H01M10/0565 (Advanced/Invention); C08K5/00 (Advanced/Non-invention)
CPC: C08G65/007 C08G65/33348 C10M2213/06 C10N2230/66 C10N2250/14 C10M111/04 C10M111/02 C10M171/04 C10M171/06 C10M2201/053 C10M2213/0623 C10M2215/023 C10M2201/0413 C09D201/04 C09D7/70 C09J11/04 C09J11/06 C08G18/6423 C08K2003/3009 C10M103/02 C10M103/04 C10M103/06 C10M2201/0613 C10M2201/0653 C10M2201/0663 C10N2210/01 C10N2210/02 C10N2210/04 C10N2210/06 C10N2210/08 C10N2220/021 C09D171/02 C09J11/08 C08G18/6505 C10M2201/082 C10M2217/0453 C10M2229/051 C10N2220/084 C09D5/1675 C09D5/165 C08K5/0066 C08K5/0016 C09D171/08 C09D171/00 C10M107/44 C10M147/04 C08G18/6666 C08G65/34 C10M149/20 C10M2201/084 C10M2201/103 C10N2230/04 C10M177/00 C08G18/3812 C09D5/1656 B64D15/00 C09D127/14 C09D127/16 A01N25/10 C08G65/22 C11C3/00 C08G18/6677 C08G18/4825 C08G81/027 C08G83/008 A01N31/02 C07C31/18 C09D5/08 C09D5/16 C09D7/00 C09D7/61 B05D1/02 C09D5/1681 A01N37/00 C08G18/246 C08G18/3206 C08G18/4833 C08G18/5015 C08G18/758 C08G65/226 C08G81/00 C08K3/16 C08K5/053 C08K5/098 C09D5/1637 C09D7/65 C09D175/08 C09D187/005 C09K5/20

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US: 1/1 252/73 427/385.5 508/117 508/138 508/183 508/552 508/582 523/122 524/590 524/612 528/401 528/70 568/615

Family:

Publication number	Publication date	Application number	Application date
CN108699481 A	20181023	CN201680082060	20160318
CN109476947 A	20190315	CN201780045653	20170531
CN109563386 A	20190402	CN201780047673	20170630
CN109804029 A	20190524	CN201780061201	20171010
EP3394229 A1	20181031	EP20160879508	20160318
EP3394229 A4	20190807	EP20160879508	20160318
EP3464493 A1	20190410	EP20170807358	20170531
EP3478786 A2	20190508	EP20170821312	20170630
EP3526295 A1	20190821	EP20170860544	20171010
US2016194574 AA	20160707	US20150829640	20150819
US2016201005 AA	20160714	US20160073615	20160317
US2017015922 AA	20170119	US20150658188	20150314
US2017267871 AA	20170921	US20170608975	20170530
US2017298286 AA	20171019	US20170638340	20170629
US2018030329 AA	20180201	US20170727669	20171009
US2018237643 AA	20180823	US20180960149	20180423
US2019023830 AA	20190124	US20180144123	20180927
US2019023910 AA	20190124	US20180144537	20180927
US2019176188 AA	20190613	US20180173255	20181029
US2019270944 AA	20190905	US20190419216	20190522
US10125227 BB	20181113	US20150829640	20150819
US10344244 BB	20190709	US20150658188	20150314
WO17111984 A1	20170629	WO2016US22995	20160318
WO17210230 A1	20171207	WO2017US35082	20170531
WO18005896 A2	20180104	WO2017US40153	20170630
WO18005896 A3	20180222	WO2017US40153	20170630
WO18005896 A4	20180511	WO2017US40153	20170630
WO18071349 A1	20180419	WO2017US55812	20171010
WO19005272 A1	20190103	WO2018US28992	20180424
WO19152080 A1	20190808	WO2018US53263	20180928
WO19152081 A1	20190808	WO2018US53269	20180928
WO19177667 A1	20190919	WO2018US58114	20181030

Priority:

US20140953093P 20140314 US20140038878P 20140819 US20150658188 20150314
US20150829640 20150819 US20150271193P 20151222 US20160073615 20160317
WO2016US22995 20160318 US20160345250P 20160603 US20160356867P 20160630
US20160408280P 20161014 US20170608975 20170530 WO2017US35082 20170531
US20170638340 20170629 US20170526496P 20170629 WO2017US40153 20170630
US20170727669 20171009 WO2017US55812 20171010 US20180624226P 20180131
US20180624230P 20180131 US20180643838P 20180316 US20180960149 20180423
US20180144123 20180927 US20180144537 20180927 US20180173255 20181029
US20190419216 20190522

Probable Assignee: HRL LABORATORIES LLC

Assignee(s): (std)**:** HRL LAB LLC

Assignee(s): HRL LABORATORIES LLC

Inventor(s): (std)**:** NOWAK ANDREW P ; GROSS ADAM F ; SHERMAN ELENA ; GROSS ADAM ; NOWAK ANDREW ; GRAETZ JASON ; RODRIGUEZ APRIL ; RODRIGUEZ APRIL R ; CUMBERLAND LARKEN E ; GRAETZ JASON A

Agent(s): LEE NICHOLAS JOHN; COLES ANDREA BIRGIT; O CONNOR AND CO; OCONNOR RYAN

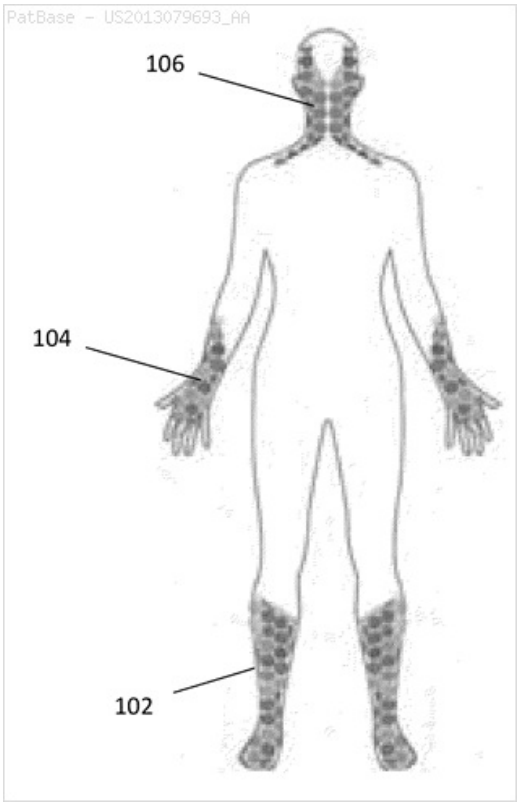
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28) Family number: 53294109 (US2013079693A)

Title: CUSTOMIZABLE EMBEDDED SENSORS

Abstract: A method of constructing a sensor includes depositing a first material in a predetermined arrangement to form a structure. The depositing results in at least one void occurring within the structure. The method further includes depositing a second material within the voids. The second material may have electrical properties that vary according to deformation of the second material. The method also includes providing electrical access to the second material to enable observation of the one or more electrical properties. A sensor includes a structure that has one or more voids distributed within the structure. The sensor also includes a material deposited within the one or more voids. The material may be characterized by one or more electrical properties such as piezoresistivity. The sensor includes a first contact electrically coupled to a first location on the material, and a second contact electrically coupled to a second location on the material.
Classifications:
International (IPC 8-9): A61B5/11 A61F2/54 A61F2/60 A61F2/68 A61F5/00 A61F5/01 B05D3/14 G01B7/16 G01D11/00 G01L1/06 G01L1/12 G01L1/14 G01L1/18 G01L25/00 G01L3/00 G01L3/10 G01L3/14 G01L5/00 G01L9/00 G01L9/02 H01L41/08 H01L41/29 H01L41/314 (Advanced/Invention);

A61F5/01 (Advanced/Non-invention)
CPC: G01D11/00 H01L41/29 H01L41/314 A61F2005/0188 G01B7/18 G01L1/06 G01L1/127 G01L1/142 G01L9/0072 G01L9/02 G01L25/00 Y10T29/49117 A61F5/0102 A61F5/0127 B33Y80/00
US: 1/1 29/825 427/100 427/58 602/27 602/28 602/5 73/12.01 73/570 73/849 73/862.08 73/862.381 73/865.8



Family:

Publication number	Publication date	Application number	Application date
EP2764557 A1	20140813	EP20120836506	20120926
EP2764557 A4	20160427	EP20120836506	20120926
JP2014533975 T2	20141218	JP20140532105T	20120926
US2013079693 AA	20130328	US20120627745	20120926
US2016187166 AA	20160630	US20150978522	20151222
US9228859 BB	20160105	US20120627745	20120926
WO13049188 A1	20130404	WO2012US57316	20120926

Priority:

US20110539198P 20110926 US20120650531P 20120523 US20120627745 20120926
WO2012US57316 20120926 US20150978522 20151222

Probable Assignee: NORTHEASTERN UNIV

Assignee(s): (std)**:** MAVROIDIS CONSTANTINOS ; UNIV NORTHEASTERN ; RANKY RICHARD

Assignee(s): NATIONAL SCIENCE FOUNDATION ; NORTHEASTERN UNIV ; NORTHEASTERN UNIVERSITY

Inventor(s): (std)**:** MAVROIDIS CONSTANTINOS ; RANKY RICHARD

Agent(s): HGF LTD; HIROE AND ASSOCIATES PATENT PROFESSIONAL CORP; WILMER CUTLER PICKERING HALE AND DORR LLP; SCOZZAFAVA MARY ROSE ET AL

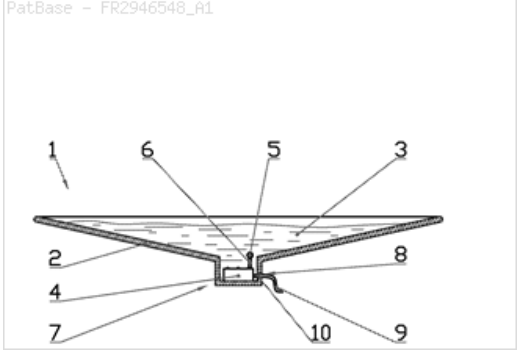
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29) Family number: 47891112 (FR2946548B)

Title: VASQUE DE BRUMISATION

Abstract: The diffuser has an ultrasound sprayer (4) that is drowned in a liquid (3). The sprayer is provided with a vibration member that allows pulverizing of particles of the liquid so as to form a wet fog, where the diffuser presents an indentation (7) to partially or completely hide the ultrasound sprayer. A level gauge (5) is utilized to stop atomization when a level of the liquid reaches the gauge. The gauge is positioned on an upper end of the indentation. A sealing layer is provided for resisting variations in the diffuser.

Classifications:
International (IPC 8-9): A61L9/16 B05B17/06 (Advanced/Invention)
CPC: B05B17/0615 B05B12/081 F24F2006/125 Y02B30/80
European: B05B12/08C B05B17/06B1 R24F6/12A Y02B30/80



Family:

Publication number	Publication date	Application number	Application date
FR2946548 A1	20101217	FR20090053946	20090612
FR2946548 B1	20120427	FR20090053946	20090612

Priority:

FR20090053946 20090612

Probable Assignee: CLAUDE CAHUZAC

Assignee(s): (std)**:** CAHUZAC CLAUDE ; GRAZIO GIAQUINTO

Assignee(s): CLAUDE CAHUZAC ; GIAQUINTO GRAZIO

Inventor(s): (std)**:** CAHUZAC CLAUDE ; GRAZIO GIAQUINTO

Inventor(s): CLAUDE CAHUZAC ; GIAQUINTO GRAZIO

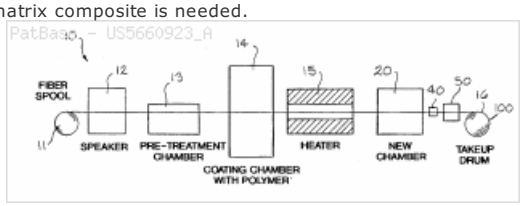
Agent(s): CLAUDE CAHUZAC; MICHEL ROMAN

30) Family number: 11525112 (US5660923A)

Title: METHOD FOR THE PREPARATION OF METAL MATRIX FIBER COMPOSITES

Abstract: A method for producing continuous and discontinuous fiber metal matrix composites (CFMMC). The method uses aerosolization of finely divided metal powders in a controlled atmosphere which prevents explosions to coat the fibers and then the metal coated fibers are consolidated to form the CFMMC. The composites are useful as heat sinks for electrical components and in applications where a structural reinforced metal matrix composite is needed.

Classifications:
International (IPC 8-9)**:** B22F1/02 C22C47/04 C22C47/14 C22C49/14 D06M10/02 D06M11/83 D06M23/06 (Advanced/Invention); B22F1/02 C22C47/00 C22C49/00 D06M10/00 D06M11/00 D06M23/00 (Core/Invention)
International (IPC 1-7)**:** B05C3/12 B32B5/16
CPC: Y10S118/05 Y10S428/902 B22F1/025 B22F2998/00 B22F2999/00 C22C47/04 C22C47/14 C22C49/14 D06M10/02 D06M11/83 D06M23/06 Y10T428/2982 Y10T428/30 Y10T442/655
European: B22F1/02B C22C47/04 C22C47/14 C22C49/14 D06M10/02 D06M11/83 D06M23/06 L22F998/00 L22F999/00
US: 118/308 118/309 118/325 118/420 118/58 118/620 118/65 118/DIG.5 264/131 264/257 34/362 427/191 427/192 427/294 427/370 427/383.3 428/402 428/408 428/902 442/377 65/431 65/445 65/529



Family:

Publication number	Publication date	Application number	Application date
US5660923 A	19970826	US19940332575	19941031
US5891249 A	19990406	US19970784118	19970115

Priority:

US19940332575 19941031 US19970784118 19970115

Probable Assignee: BOARD OF TRUSTEES OPERATING MICHIGAN STATE UNIV

Assignee(s): (std)**:** UNIV MICHIGAN STATE

Assignee(s): BOARD OF TRUSTEES OPERATING MICHIGAN STATE UNIV ; BOARD OF TRUSTEES OPERATING MICHIGAN STATE UNIVERS ; BOARD OF TRUSTEES OPERATING MICHIGAN STATE UNIVERSITY

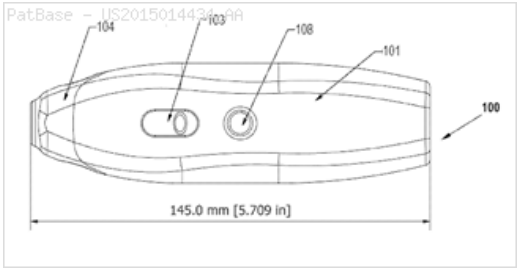
Inventor(s): (std)**:** BIELER THOMAS R ; DRZAL LAWRENCE T ; WANG HUIZHONG ; YALLAPRAGADA VISWANADHA R

31) Family number: 53122114 (US2015014434A)

Title: ULTRASONIC SPRAYING DEVICE / AIR-ASSISTED ULTRASONIC SPRAYING DEVICE WITH ADVANCING CARTRIDGE PISTON

Abstract: The invention provides systems and methods for delivering a fluid, which may be a cosmetic fluid. The fluid delivery system may employ ultrasonic energy to deliver fluid contained in a cartridge using a spraying device. The fluid delivery system may be modular.

Classifications:
International (IPC 8-9)**:** A45D34/00 B05B17/06 (Advanced/Invention)
CPC: B05B7/066 A45D40/24 A45D2034/005 A45D2200/055 A45D2200/057 A45D2200/207 B05B9/0838 B05B17/0615 A45D34/00 A45D34/02 B05B17/0607 B05B17/063 B05B17/0676
US: 239/102.2



Family:

Publication number	Publication date	Application number	Application date
US2015014434 AA	20150115	US20140188472	20140224
WO13028934 A1	20130228	WO2012US52172	20120823

Priority:

US20110526619P 20110823 WO2012US52172 20120823 US20140188472 20140224

Probable Assignee: TEMPTU INC

Assignee(s): (std)**:** FEDOROV GENNADI ; TEMPTU INC

Inventor(s): (std)**:** FEDOROV GENNADI

Agent(s): ALEMOZAFAR ALI R ET AL

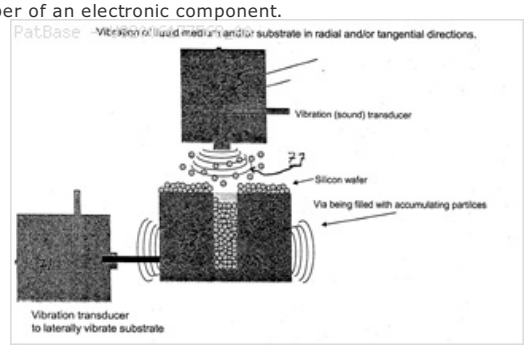
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY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

32) Family number: 33191116 (US2006177568A)

Title: CENTRIFUGAL METHOD FOR FILING HIGH ASPECT RATIO BLIND MICRO VIAS WITH POWDERED MATERIALS FOR CIRCUIT FORMATION

Abstract: The present disclosure relates generally to semiconductor, integrated circuits, and particularly, but not by way of limitation, to centrifugal methods of filling high-aspect ratio vias and trenches with powders, pastes, suspensions of materials to act as any of a conducting, structural support, or protective member of an electronic component.

Classifications:
International (IPC 8-9): B04B11/00 B05C1/00 B05D1/42 B05D3/12 B05D5/12 H01L21/44 H01L23/52 H05K3/00 (Advanced/Invention); B04B11/00 B05D1/40 B05D3/12 H01L21/02 H01L23/52 (Core/Invention)
CPC: H01L21/486 H01L21/76898 H05K3/4053 B05D1/002 H05K2201/09509 H05K2203/1554
European: H05K3/40D2 L05D1/00C T05K201/09C4A T05K203/15F
US: 118/107 118/232 118/232S 118/301 118/320 118/50 118/52 118/54 118/57 118/621 257/773 257/773P 257/E21.476 257/E21.476S 257/E23.141 257/E23.141S 427/240 427/240S 427/256 427/272 427/277 427/282 427/287 427/294 427/346 427/356 427/368 427/425 427/458 427/466 427/468 427/97.7 427/97.700S 427/98.3 427/98.300P 438/660 438/660S 494/27 494/27S



Family:

Publication number	Publication date	Application number	Application date
US2006177568 AA	20060810	US20050049846	20050204
US2009032962 AA	20090205	US20080247894	20081008
US7452568 BB	20081118	US20050049846	20050204
US7815968 BB	20101019	US20080247894	20081008

Priority:
US20050049846 20050204 US20080247894 20081008

Probable Assignee: GLOBALFOUNDRIES INC

Assignee(s): (std): IBM

Assignee(s): INT BUSINESS MACHINES CORP ; YORKTOWN ; INT BUSINESS MACHINES YORKTOWN CORP ; ALSEPHINA INNOVATIONS INC ; GLOBALFOUNDRIES INC ; GLOBALFOUNDRIES US 2 LLC

Inventor(s): (std): HOUGHAM GARETH ; BUCHWALTER LEENA P ; BUCHWALTER STEPHEN L ; CASEY JON ; FEGER CLAUDIUS ; FLOTTA MATTEO ; GELORME JEFFREY D ; HINGE KATHLEEN C ; JAIN ANURAG ; KANG SUNG K ; KNICKERBOCKER JOHN U ; BUCHWALTER LEENA PAIVIKKI ; GELMORE JEFFREY D

Inventor(s): KANG SUNG ; BUCHWALTER LEENA ; GELORME JEFFREY ; HINGE KATHLEEN ; KNICKERBOCKER JOHN ; BUCHWALTER STEPHEN

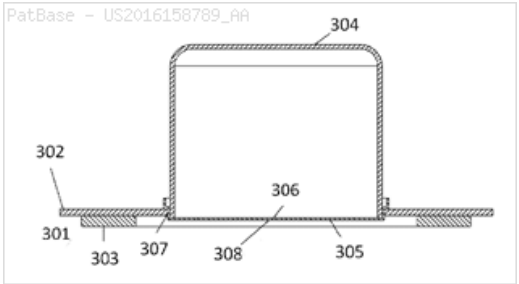
Agent(s): CONNOLLY BOVE LODGE AND HUTZ LLP IBM YORKTOWN; CONNOLLY BOVE LODGE AND HUTZ LLP; MORRIS ESQ DANIEL P; DANIEL P

33) Family number: 54729118 (US2016158789A)

Title: SEPARABLE MEMBRANE IMPROVEMENTS

Abstract: An apparatus is provided for nebulising a liquid from a liquid supply through a membrane comprising first and second surfaces and a plurality of apertures extending through the membrane. The apparatus includes an area for receiving a liquid supply, arranged to deliver a liquid to the first surface of the membrane, a vibrator member, arranged to vibrate the membrane to eject liquid droplets from the front surface of the membrane on vibration; and a mechanical coupling mechanism, arranged to provide a removable mechanical clamping force for clamping the membrane to the vibrator member. Various mechanisms for implementing the mechanical coupling are provided, and liquid containers and membranes for use in the device are proposed.

Classifications:
International (IPC 8-9): A61M11/00 B05B1/14 B05B1/18 B05B17/00 B05B17/06 B05B7/24 (Advanced/Invention)
CPC: A61M11/005 B05B17/0646 B05B1/14 B05B1/185 B05B7/2408 B05B17/06 B05B17/0607
US: 239/102.1 239/548



Family:

Publication number	Publication date	Application number	Application date
CN105579147 A	20160511	CN201480048863	20140709
CN105579147 B	20190705	CN201480048863	20140709
EP3019283 A1	20160518	EP20140742296	20140709
GB201312263 A0	20130821	GB20130012263	20130709

US2016158789 AA	20160609	US20140903753	20140709
US2019255554 AA	20190822	US20190260377	20190129
US10195634 BB	20190205	US20140903753	20140709
WO15004449 A1	20150115	WO2014GB52084	20140709

Priority:

GB20130012263 20130709 WO2014GB52084 20140709 US20160903753 20160108
US20190260377 20190129

Probable Assignee: TECHNOLOGY PARTNERSHIP PLC

Assignee(s): (std): TECH PARTNERSHIP PLC ; TECHNOLOGY PARTNERSHIP ; TECHNOLOGY PARTNERSHIP PLC

Inventor(s): (std): SELBY ROBERT GORDON MAURICE ; STRANGE DANIEL GEOFFREY TYLER

Agent(s): GILL JENNINGS AND EVERY LLP; LERNER DAVID LITTENBERG KRUMHOLZ AND MENTLIK LLP

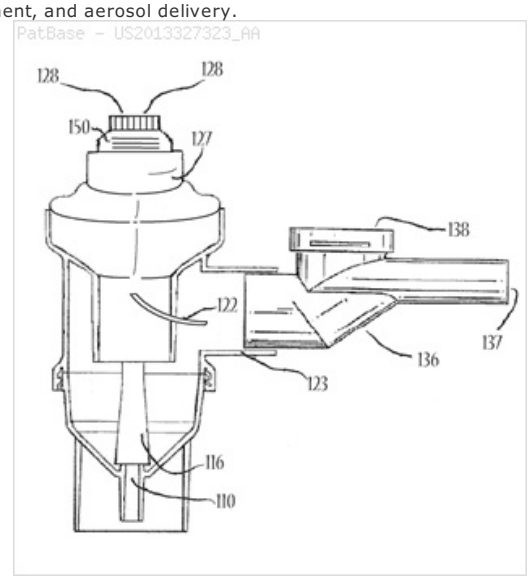
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34) Family number: 50738120 (US2013327323A)

Title: NEBULIZER HAVING DIFFERENT NEGATIVE PRESSURE THRESHOLD SETTINGS

Abstract: Novel nebulizers and methods are provided for a nebulizer including a dialable negative pressure threshold valve that actuates in response to different negative pressures corresponding to different negative pressure threshold settings of actuation of the valve to influence inhalation effort, aerosol entrainment, and aerosol delivery.

Classifications:
International (IPC 8-9): A24F47/00 A61M11/00 A61M11/02 A61M11/04 A61M11/06 A61M15/00 A61M15/06 A61M16/00 A61M16/08 A61M16/10 A61M16/14 A61M16/20 A62B7/00 B05B1/26 (Advanced/Invention);
A61M11/00 A61M15/02 A61M16/00 (Advanced/Non-invention)
CPC: A61M11/02 A61M11/041 A61M15/0028 A61M2016/0039 A61M2202/064 A61M2205/3653 A61M2205/52 A61M2205/8206 A61M2205/8268 A61M11/042 A61M11/047 A61M15/008 A61M16/204 A61M11/007 A61M15/0066 A61M15/025 A61M11/06 A61M15/002 A61M15/0085 A61M15/0091 A61M15/02 A61M16/209 A61M15/0095 A61M2205/13 A61M2205/6018 A61M2205/6054 A61M2205/6072 A61M15/0093 A61M16/0093 A61M16/101 A61M16/1055 A61M16/1065 A24F47/008 A61M2205/8262 A61M2205/8237 A61M2205/505 A61M2202/30 A61M2016/0033 A61M2016/0027 A61M2210/0618 A61M2210/065 A61M2210/1028 A61M2210/1032 A61M2210/1039 A61M2210/1035 A61M11/005 A61M15/0008 A61M15/06 A61M16/0866 A61M16/105 A61M16/14
European: A61M11/04H A61M15/00C A61M15/00F K61M11/04H2 K61M11/04H6 K61M15/00A13 K61M15/00D4E K61M16/00A14B4 K61M16/20A2P2 K61M202/06B K61M205/36J K61M205/52 K61M205/82B K61M205/82F
US: 1/1 128/200.14 128/200.18 128/203.15



Family:

Publication number	Publication date	Application number	Application date
CA2808836 AA	20130219	CA20112808836	20110817
EP2608829 A2	20130703	EP20110820272	20110817
EP2608829 A4	20151118	EP20110820272	20110817
US2013327323 AA	20131212	US20130969847	20130819
US2017368273 AA	20171228	US20170672021	20170808
US2019321570 AA	20191024	US20190458702	20190701
US9757528 BB	20170912	US20130969847	20130819
WO12026963 A2	20120301	WO2011US01438	20110817
WO12026963 A3	20120524	WO2011US01438	20110817

Priority:

US20100806874 20100823 WO2011US01438 20110817 US20130969847 20130819
US20170672021 20170808 US20190458702 20190701

Probable Assignee: RUBIN DARREN

Assignee(s): (std): RUBIN DARREN

Inventor(s): (std): RUBIN DARREN

Agent(s): FINLAYSON AND SINGLEHURST; CHAILLOT GENEVIEVE; COLITZ MICHAEL J

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 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

35) Family number: 51042121 (US2012104027A)

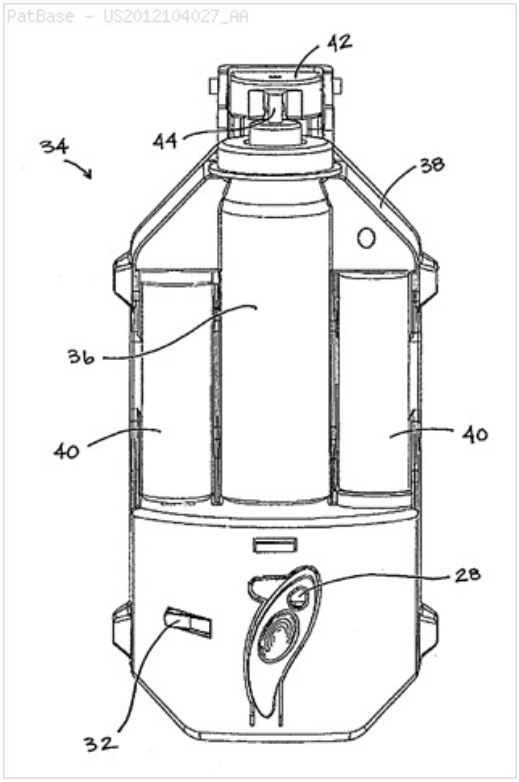
Title: DISPENSERS AND FUNCTIONAL OPERATION AND TIMING CONTROL IMPROVEMENTS FOR DISPENSERS

Abstract: A method of operating a dispensing unit includes the step of entering a first active state, during which the

detection of motion within a sensory path of a sensor of a dispensing unit initiates a first pattern activation sequence to release a volume A and a volume B of material from a fluid container. The method further includes the step of entering a second active state upon completion of the first pattern activation sequence, in which the detection of motion in the second active state initiates a second pattern activation sequence to release a volume C and a volume D of material from the container if motion is detected before the lapsing of a time period P and initiates the first pattern activation sequence if the motion is detected after the lapsing of the time period P.

Classifications:

International (IPC 8-9): A01G23/10 A01G27/00 A01M1/00 A01M1/02 A01M1/20 A01M7/00 A61L9/00 A61L9/14 A62B7/08 B05B12/08 B67B7/00 B67D1/00 B67D7/00 B67D7/08 B67D7/14 G01F11/00 G04C23/00 G04C23/42 G05D7/00 (Advanced/Invention)
CPC: A61L9/14 A01M1/026 A01M1/2038 A61L2209/111
European: A01M1/02E A01M1/20C2H A61L9/14 K61L209/111
US: 222/1 222/1P 222/52 222/52S 222/638 222/638S 222/646 222/649 239/69 239/8 422/123 422/4



Family:

Publication number	Publication date	Application number	Application date
AU2011320947 AA	20120503	AU20110320947	20111027
CN103347546 A	20131009	CN201180063173	20111027
EP2632499 A2	20130904	EP20110788620	20111027
JP2014504163 T2	20140220	JP20130536604T	20111027
US2012104027 AA	20120503	US20100915427	20101029
US2013240558 AA	20130919	US20130858607	20130408
US8464905 BB	20130618	US20100915427	20101029
US8857662 BB	20141014	US20130858607	20130408
WO12057834 A2	20120503	WO2011US01819	20111027
WO12057834 A3	20120823	WO2011US01819	20111027

Priority:

US20100915427 20101029 WO2011US01819 20111027 US20130858607 20130408

Probable Assignee: SC JOHNSON AND SON INC

Assignee(s): (std): GASPER THOMAS P ; HOPPE CHRISTOPHER S ; JOHNSON AND SON INC S C ; SHAH BHAVESHKUMAR

Assignee(s): S C JOHNSON AND SON INC ; SC JOHNSON AND SON INC

Inventor(s): (std): SHAH BHAVESHKUMAR ; GASPER THOMAS P ; HOPPE CHRISTOPHER S

Agent(s): SPRUSON AND FERGUSON; RUSCHKE HANS EDVARD; TAKAHASHI HAYASHI AND PARTNER PATENT ATTORNEYS INC; MAURER BRANT T

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

36) Family number: 54313124 (US2013183559A)

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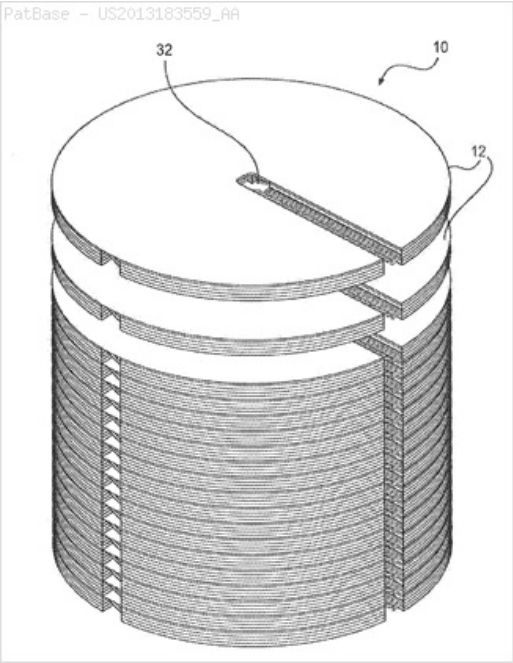
Title: LEAD-ACID BATTERY DESIGN HAVING VERSATILE FORM FACTOR

Abstract: An electrochemical storage device comprises a plurality of layer electrodes, wherein each layer electrode includes a first charged sector and a second charged sector, wherein the second charged sector is charged oppositely compared to the first charged sector, and wherein the plurality of layer electrodes are assembled with respect to each other such that the first charged sector of a first plate of the plurality of layer electrodes is laid below the second charged sector of a second plate of the plurality of layer electrodes located immediately above the first plate, wherein the charges of the first charged sectors of the first and second plates have a first sign and the charges of the second charged sectors of the first and second plates have a second sign that is opposite the first sign; a separator sector located, and enabling ionic charge exchange between the first charged sector of the first plate and the second charged sector of the second plate.

Classifications:

International (IPC 8-9): B05D5/12 B21C23/22 B32B15/01 B32B15/04 C22C1/00 C22C11/00 C22C11/02 C22C11/06 C22C11/10 C22C45/00 C22F1/12 C23C14/34 C23C16/48 C23C16/50 C23C28/00 C23C28/04 C23C4/12 C25D5/00 H01B1/02 H01B5/00 H01B5/14 H01M H01M10/04 H01M10/12 H01M10/16

H01M2/02 H01M2/10 H01M2/20 H01M2/24 H01M2/26 H01M2/30 H01M2/34 H01M4/00 H01M4/02 H01M4/13 H01M4/14 H01M4/56 H01M4/57 H01M4/68 H01M4/73 H01M4/75 H01M6/10 H02J H02J7/00 (Advanced/Invention);
H01M H02J (Subclass/Invention)
CPC: H01B1/02 C22C11/00 C22C11/06 C22C1/002 B21C23/22 B32B15/043 H01M2/1077 H01M2/206 H01M4/16 H01M4/667 C22C45/00 H01M10/122 H01M4/75 H01M10/0477 H01M10/123 H01M4/02 H01M2/28 Y02T10/7016 H01M2/024 H01M2/0242 H01M2/18 H01M2/22 H01M2/24 H01M2/305 H01M10/0413 H01M10/14 H01M10/16 B32B15/01 C22F1/12 H01M10/0445 H01M10/0431 H01M2/30 H01M10/125 H01M2/266 H01M2/20 H01M2220/20 H01M4/68 C22C11/02 C23C28/04 C23C28/042 C23C28/322 C23C28/34 C23C28/345 C23C28/3455 H01M4/685 H01M4/73 Y02E60/126 Y10T428/12493
US: 1/1 148/400 148/403 174/126.1 174/126.2 174/126.4 204/192.1 205/261 205/80 219/121.64 420/563 420/566 420/570 427/446 427/569 427/58 427/585 428/615 429/149 429/151 429/153 429/154 429/159 429/160 429/210 429/211 429/225 429/228 429/233 429/239 429/94 429/99 72/258



Family:

Publication number	Publication date	Application number	Application date
AU2013207761 AA	20130718	AU20130207761	20130111
BR112014017333 A2	20170613	BR20141117333	20130111
BR112014017333 A8	20170613	BR20141117333	20130111
BR112014017333 A8	20170704	BR20141117333	20130111
BR112014017333 A8	20170704	BR20141117333	20130111
CN104160526 A	20141119	CN201380013469	20130111
EP2803097 A1	20141119	EP20130735954	20130111
EP2803097 A4	20160217	EP20130735954	20130111
HK1204391 A1	20151113	HK20150104767	20150519
IN06227DN2014 A	20151023	IN2014DN06227	20140723
JP2015507330 T2	20150305	JP20140552345T	20130111
KR20140121439 A	20141015	KR20147022506	20130111
MX2014008544 A1	20150212	MX20140008544	20130111
US2013183559 AA	20130718	US20130766991	20130214
US2013183572 AA	20130718	US20120350686	20120113
US2013183581 AA	20130718	US20120350505	20120113
US2013216857 AA	20130822	US20130843953	20130315
US2014087237 AA	20140327	US20120626426	20120925
US2014113177 AA	20140424	US20130145692	20131231
US2015010807 AA	20150108	US20140326784	20140709
US2015303436 AA	20151022	US20150753478	20150629
US2016072121 A9	20160310	US20120626426	20120925
US8808914 BB	20140819	US20130766991	20130214
US9263721 BB	20160216	US20120626426	20120925
US9595360 BB	20170314	US20130843953	20130315
WO13106419 A1	20130718	WO2013US20813	20130109
WO13106748 A1	20130718	WO2013US21287	20130111
WO14149254 A2	20140925	WO2014US15958	20140212
WO14149254 A3	20151105	WO2014US15958	20140212

Priority:

US20120350505 20120113 US20120350686 20120113 US20120626426 20120925
WO2013US21287 20130111 US20130766991 20130214 US20130843953 20130315
US20130145692 20131231 US20140326784 20140709 US20150753478 20150629

Probable Assignee: TBP INVESTMENTS LLC

Assignee(s): (std)**:** ALBANO FABIO ; ANDERSON ERIK W ; ENERGY POWER SYSTEMS LLC ; DHAR SUBHASH ; ESPINEL JORGE ; DHAR SUBHASH K ; KOETTING WILLIAM ; MARTIN FRANK ; TOM KWOK ; HIGLEY LIN ; VENKATESAN SRINIVASAN ; NIELSON MICHAEL ; MARTIN FRANKLIN

Assignee(s): TBP INVESTMENTS LLC

Inventor(s): (std)**:** DHAR SUBHASH ; KOETTING WILLIAM ; ESPINEL JORGE ; NIELSON MICHAEL ; TOM KWOK ; ALBANO FABIO ; MARTIN FRANK ; HIGLEY LIN ; VENKATESAN SRINIVASAN ; MARTIN FRANKLIN ; DHAR SUBHASH K ; ANDERSON ERIK W ; PAYNE JOSH ; CARLSON JAMES ; TOM KWAK ; HOLLAND ART ; KOEDERITZ WILL ; PAYNE JOSHUA ; ORTIZ JEAN PAUL ; SUBHASH DHAR ; KWOK TOM ; FABIO ALBANO ; WILLIAM KOETTING ; JORGE ESPINEL ; FRANKLIN MARTIN ; MICHAEL NIELSON

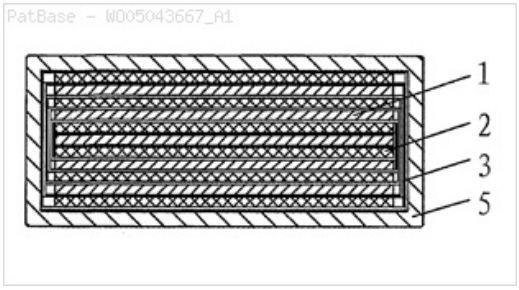
Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; KADOR AND PARTNER; CHINA SINDA INTELLECTUAL PROPERTY LTD; FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER LLP; GARRETT ARTHUR S; JHAVERI SULAY

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

37) Family number: 31882127 (US2004121236A)

Title: LITHIUM ION SECONDARY BATTERIES

Abstract: The present invention relates to a type of battery, in particular lithium ion secondary battery, where such battery include a positive electrode, a negative electrode, electrolyte, and a separator, where the positive and negative electrodes are smear with a mixture made from active ingredient, conductive paste and an additive paste, said mixture smear on the metal conductor. The positive terminal material preferably made from aluminum foil, and the negative terminal material preferably made from copper foil. The positive electrode conductive paste preferably made from aluminum powder or aluminum fiber, and the conductive paste for the negative electrode preferably made from copper powder or copper fiber. The resulting lithium ion secondary battery has lower internal resistance and better cycling characteristics, suitable for high rate discharge.



Classifications:
International (IPC 8-9): B05D5/12 C01B13/14 C01B31/24 C01B32/60 C01D1/02 C01D15/00 C01D15/02 C01G1/00 C01G1/02 C01G45/00 C01G45/12 C01G51/00 C01G51/04 C01G53/00 C01G53/04 H01M10/04 H01M10/05 H01M10/052 H01M10/0525 H01M10/0568 H01M10/0569 H01M10/058 H01M10/0583 H01M10/0585 H01M10/0587 H01M10/36 H01M10/38 H01M10/40 H01M2/02 H01M2/04 H01M2/08 H01M2/10 H01M2/18 H01M2/26 H01M2/30 H01M2/34 H01M4/02 H01M4/04 H01M4/13 H01M4/131 H01M4/1391 H01M4/32 H01M4/48 H01M4/50 H01M4/505 H01M4/52 H01M4/525 H01M4/58 H01M4/587 H01M4/62 H01M4/66 H01M6/00 (Advanced/Invention);
H01M10/04 H01M10/052 H01M10/0525 H01M10/0568 H01M10/058 H01M10/0587 H01M10/36 H01M10/40 H01M2/10 H01M2/16 H01M4/02 H01M4/13 H01M4/131 H01M4/133 H01M4/36 H01M4/48 H01M4/50 H01M4/505 H01M4/52 H01M4/525 (Advanced/Non-invention);
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H01M10/00 H01M10/36 H01M4/36 H01M4/48 H01M4/50 H01M4/52 (Core/Non-invention)
International (IPC 1-7): B05D5/12 C01B13/14 C01B31/24 C01D1/02 C01D15/00 C01D15/02 C01G1/02 C01G45/12 C01G51/04 C01G53/04 H01M10/04 H01M10/36 H01M10/38 H01M10/40 H01M2/02 H01M2/04 H01M2/08 H01M2/18 H01M2/26 H01M4/02 H01M4/04 H01M4/48 H01M4/50 H01M4/52 H01M4/58 H01M4/62 H01M4/66
CPC: C01P2004/86 C01P2006/37 C01G53/006 C01G53/00 C01P2002/54 H01M2/26 H01M2/1673 H01M2/263 H01M4/133 H01M10/0585 H01M10/0436 H01M4/70 C01P2004/62 C01P2006/11 C01P2002/52 C01P2002/74 C01P2004/51 H01M2004/021 C01G45/1228 C01G51/50 C01P2002/76 C01P2004/03 C01P2006/80 H01M4/362 H01M4/485 H01M4/624 H01M4/626 H01M4/661 Y10T29/4911 Y10T29/49108 C01G45/1242 C01G51/42 C01G53/42 C01G53/50 C01P2002/72 C01P2004/61 C01P2004/84 C01P2006/40 H01M4/02 H01M4/1391 H01M4/366 H01M4/62 H01M10/0568 H01M2/18 H01M2/266 H01M2/34 H01M2/348 H01M4/505 H01M10/0413 H01M10/0468 H01M10/4235 H01M4/131 H01M4/04 H01M4/525 H01M10/052 H01M2004/028 H01M4/0471 H01M10/0587 H01M4/13 H01M10/0459 H01M10/0525 H01M10/0583
European: C01G45/12C2 C01G45/12C6 C01G51/00D C01G51/42 C01G51/50 C01G53/00D C01G53/42 C01G53/50 H01M10/04B H01M10/04F H01M10/04J H01M10/04L H01M10/0525 H01M10/0583 H01M10/0585 H01M10/0587 H01M10/42M H01M2/18 H01M2/26C H01M2/26D H01M2/34 H01M2/34T H01M4/04 H01M4/04F H01M4/13 H01M4/131 H01M4/1391 H01M4/36K H01M4/36K2 H01M4/48B2 H01M4/505 H01M4/50B2 H01M4/525 H01M4/52B2 H01M4/62 H01M4/62C H01M4/62C4 H01M4/66A M01P2/52 M01P2/72 M01P2/74 M01P4/03 M01P4/51 M01P4/61 M01P4/84 M01P6/11 M01P6/40 M01P6/80 T01M10/052 T01M10/0525 T01M10/0568 T01M10/42M T01M2/16E T01M2/18 T01M4/02 T01M4/02C T01M4/02U2 T01M4/04F T01M4/131 T01M4/133 T01M4/485 T01M4/505 T01M4/525 Y02E60/12 Y02E60/12B Y02E60/12D
US: 252/182.1 252/182.100S 29/623.1 29/623.100S 29/623.2 29/623.200S 423/138 423/179.5 423/49 423/593.1 423/594.15 423/594.150P 423/594.2 423/594.200P 423/594.4 423/594.400P 423/594.400S 423/594.6 423/594.600S 423/599 423/599S 423/641 427/126.6 427/126.600S 429/128 429/128S 429/13 429/130 429/130P 429/131 429/136 429/136S 429/139 429/161 429/161P 429/175 429/175S 429/176 429/185 429/209 429/211 429/223 429/223S 429/224 429/224S 429/231.1 429/231.100S 429/231.2 429/231.3 429/231.300P 429/231.300S 429/231.8 429/231.800S 429/232 429/232P 429/245 429/61 429/66

Family:

Publication number	Publication date	Application number	Application date
AT449429 E	20091215	AT20040801923T	20040827
AT492043 E	20110115	AT20040789884T	20041028
CN100417595 C	20080910	CN20021051991	20021119
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CN1581543 A	20050216	CN20031040216	20030815
CN1581561 A	20050216	CN20031040196	20030815
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CN1612401 A	20050504	CN200310111966	20031028
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EP1683226 A1	20060726	EP20040789884	20041028
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EP1683226 B1	20101215	EP20040789884	20041028

JP2006527467 T2	20061130	JP20060515628T	20040421
JP2007510259 T2	20070419	JP20060537038T	20041028
JP4423290 B2	20100303	JP20060515628T	20040421
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KR100749980 B1	20070816	KR20067004196	20040827
KR20060035631 A	20060426	KR20057024641	20040421
KR20060060715 A	20060605	KR20067004196	20040827
KR20060096455 A	20060911	KR20067010253	20041028
US2004121236 AA	20040624	US20030733018	20031210
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WO04114452 A1	20041229	WO2004CN000379	20040421
WO05022677 A1	20050310	WO2004CN000995	20040827
WO05043667 A1	20050512	WO2004CN001225	20041028

Priority:

CN20021051991	20021104	CN20021051991	20021119	CN20021056241	20021210
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Probable Assignee: BYD CO LTD

Assignee(s): (std)**:** BYD CO LTD ; BYD AMERICA CORP ; BIYADI ; BIYADI CO LTD ; WANG CHUANFU

Assignee(s): BIYADI CO ; BYD CO ; DONG JUNGING ; JIANG ZHANFENG ; DONG JUNQING ; HE YUCHEN ; BYD CO SHENZHEN LTD ; SHEN XI ; LIU HUIQUAN ; WANG CHAUNFU ; LIU WEIPING ; XIAO HONG

Inventor(s): (std)**:** JIANG ZHANFENG ; LIU HUIQUAN ; DONG JUNQING ; WANG CHAUNFU ; LIU WEIPING ; XIAO HONG ; HE YUCHEN ; WANG CHUANFU ; SHEN XI ; ZHOU XINYING ; WANG C ; WANG CHUANFU DONG ; WANG CHUANFU SHEN ; WANG CHUANFU JIANG ; XI SHEN ; HONG XIAO ; HUIQUAN ZHOU LIU ; HUIQUAN LIU ; CHUANFU WANG ; JUNQING DONG ; WEIPING LIU ; JUNQIN DONG ; ZHANFENG JIANG ; SHEN ; DONG JUNQIN ; LIU HUIQUAN ZHOU ; DONG JUNGING

Inventor(s): WANG CHUANFU BYD COMPANY LTD ; SHEN XI DORMITORY MAIL STOP BYD CO LTD ; WANG C DORMITORY MAIL STOP BYD CO LTD ; WANG C DORMITORY MAIL STOP BYD CO SHENZHEN LTD ; SHEN XI DORMITORY MAIL STOP BYD CO SHENZHEN LTD ; CHUANFU JIANG WANG ; CHUANFU SHEN WANG ; CHUANFU DONG WANG

Agent(s): ADVOTEC PATENT U RECHTSANWAELTE; JENNINGS NIGEL ROBIN; BOECK BERNHARD; EMIL CHANG LAW OFFICES OF EMIL CHANG; EMIL CHANG, LAW OFFICES OF EMIL CHANG; VENTURE PACIFIC LAW 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

38) Family number: 49958128 (WO11144519A1)

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Title: DEVICES FOR SPRAYING A FRAGRANCING COMPOSITION COMPRISING AT LEAST ONE VOLATILE LIQUID LINEAR ALKANE; FRAGRANCING PROCESSES

Abstract: The present invention relates to a particular spraying device comprising a fragrancing liquid composition comprising at least one fragrance, at least one liquid volatile linear alkane or a mixture of liquid volatile linear alkanes. The present invention relates to an assembly comprising: (A) a liquid fragrancing composition comprising, in a physiologically acceptable medium: (i) at least 1 percent by weight of a perfume concentrate relative to the total weight of the composition; (ii) at least one liquid volatile linear alkane or a mixture of liquid volatile linear alkanes; (B) a spraying device comprising a container containing the said composition, and a spraying mechanism comprising at least one spraying orifice having a particular diameter. The present invention also relates to a process for fragrancing human keratin materials and especially the skin, the lips, the hair, the scalp or the nails, comprising at least one step of spraying a fragrancing composition using a device as defined in any one of the preceding claims. The present invention also relates to a process for fragrancing ambient air, comprising at least one step of spraying a fragrancing composition using a device as defined in any one of the preceding claims.

Classifications:
International (IPC 8-9): A45D34/00 A61K8/31 A61L9/01 A61Q13/00 B05B11/00 B05B17/06 (Advanced/Invention)
CPC: A61K8/31 A61K2800/5922 A61Q13/00 A61Q19/00
European: A61K8/31 A61Q13/00 A61Q19/00 K61K800/5922

Family:

Publication number	Publication date	Application number	Application date
FR2960148 A1	20111125	FR20100053910	20100520
FR2960148 B1	20120713	FR20100053910	20100520
WO11144519 A1	20111124	WO2011EP57717	20110512

Priority:

FR20100053910 20100520 US20100347219P 20100521

Probable Assignee: LOREAL SA

Assignee(s): (std): ALBELDA VIRGINIE ; BARA ISABELLE ; LOREAL SA ; OREAL

Assignee(s): L OREAL

Inventor(s): (std): BARA ISABELLE ; ALBELDA VIRGINIE

Inventor(s): VIRGINIE ALBELDA ; ISABELLE BARA

Agent(s): LOREAL; MISZPUTEN LAURENT

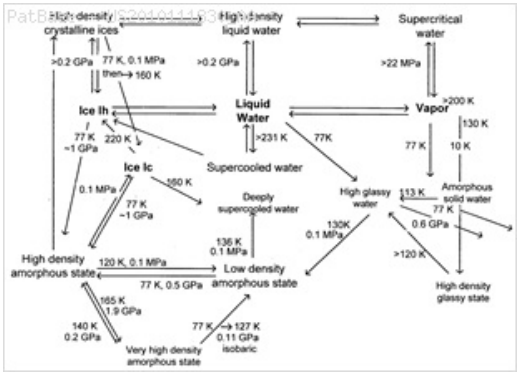
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39) Family number: 44970137 (US2010111830A)

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Title: COMPOSITIONS AND METHODS FOR SURFACE ABRASION WITH FROZEN PARTICLES

Abstract: Certain embodiments disclosed herein relate to compositions, methods, devices, systems, and products regarding frozen particles. In certain embodiments, the frozen particles include materials at low temperatures. In certain embodiments, the frozen particles provide vehicles for delivery of particular agents. In certain embodiments, the frozen particles are administered to at least one biological tissue.



Classifications:

International (IPC 8-9): A01H5/00 A01N1/00 A01N1/02 A23L1/48 A23L3/375 A23L35/00 A61B17/00 A61B17/3203 A61B17/3205 A61B17/50 A61B18/02 A61B18/18 A61B5/00 A61B5/055 A61B6/00 A61F7/00 A61K31/00 A61K31/10 A61K31/137 A61K31/195 A61K31/337 A61K31/505 A61K31/519 A61K31/59 A61K31/70 A61K31/7008 A61K31/7012 A61K31/704 A61K31/7052 A61K31/7088 A61K31/74 A61K33/00 A61K33/14 A61K35/00 A61K35/12 A61K35/16 A61K35/28 A61K35/32 A61K35/33 A61K35/34 A61K35/74 A61K35/76 A61K38/00 A61K38/02 A61K38/13 A61K38/14 A61K38/16 A61K38/18 A61K38/19 A61K38/22 A61K38/38 A61K38/43 A61K38/48 A61K39/00 A61K39/05 A61K39/08 A61K39/116 A61K39/145 A61K39/395 A61K41/00 A61K45/00 A61K45/06 A61K47/02 A61K47/04 A61K47/06 A61K47/08 A61K47/12 A61K47/14 A61K47/16 A61K47/20 A61K47/30 A61K47/32 A61K47/36 A61K48/00 A61K49/00 A61K49/04 A61K49/06 A61K49/18 A61K51/00 A61K51/02 A61K51/10 A61K51/12 A61K9/00 A61K9/08 A61K9/12 A61K9/127 A61K9/133 A61K9/14 A61K9/16 A61K9/19 A61K9/20 A61K9/24 A61K9/28 A61K9/50 A61K9/68 A61L9/01 A61M37/00 A61M5/00 A61M5/30 A61P17/00 A61P17/02 A61P31/16 A61P35/00 A61P43/00 B01J8/18 B05B7/00 B06B1/02 B24B1/00 B26D7/00 B26D7/06 B29C47/78 B32B15/02 B32B5/16 B65D35/38 B65D83/00 B67D7/06 B67D7/16 C06B45/00 C06B45/18 C07K16/22 C07K16/28 C07K16/30 C09K13/00 C12N5/00 C12N5/02 C12N5/04 C12N5/06 C12N5/07 C12N5/071 C12N5/09 C12Q1/02 C40B60/00 D03D23/00 D03D43/00 F25C1/00 G01N33/48 G01N33/574 G05B15/02 G06F17/00 G06F17/30 G06F17/50 G06F19/00 G06F19/18 G06G7/48 G06G7/60 G06Q50/00 G06Q50/22 (Advanced/Invention);
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G05D7/06 (Core/Non-invention)

CPC: A61K9/1682 B26D5/32 B26D7/08 B26F1/24 A61K9/0024 A61K9/5015 A61K9/5057 A61M2037/003 A61M2037/0046 A61M2037/0053 A61M2037/0061 A61K51/1051 A61K51/1251 B82Y5/00 F26B5/06 A61K9/501 A61M37/0069 A61M2205/3306 G06F19/3468 G06F19/36 G06Q50/22 A61K31/519 A61K31/59 A61M2037/0023 A61M2205/02 A61B2017/00022 A61B2017/00128 A61K51/1027 A61M2005/005 A61K9/0014 A61K9/7015 A61K35/16 A61K35/28 A61K35/32 A61K35/33 A61K35/34 C07K16/2809 C07K16/2848 C07K2317/31 G06F19/3481 G01N33/574 G01N33/57407 G01N2800/52 A61M37/00 A61B17/3205 A61B17/00491 A61K2300/00 A61K9/12 A61K9/143 C07K16/22 A61K9/209 A61K9/2095 A61K9/2866 A61K31/74 A61K39/145 A61K2039/54 A61M37/0015 C12N2760/16034 A61K2039/545 A61K31/7008 A61K9/1617 A61K38/38 A61K38/4833 A61K38/4886 A61K9/00 A61K9/127 A61K31/505 A61K31/7012 C07K16/2863 A61K9/167 A61K9/0019 A61K9/1611 A61K31/00 A61K31/337 A61K31/70 A61K31/7088 A61K39/00 A61K41/0004 A61K45/06 A61B18/02 A61B17/545 A61K38/00 A61K31/10 A61K49/1818 Y10T83/222 Y10T83/0448 A61K39/12 A61K9/0021 G06F19/3456 Y10T428/2982 A61K35/00 A61K9/145 A61K9/16 A61B2034/101 B33Y80/00 B33Y70/00 C07K16/2824 A61K2039/505 C07K16/283 C07K16/2842 C07K16/2878 C07K16/30 A61K51/1244 A61K51/12 A61K33/00 A61K9/007 A61K9/08 A61K9/14 A61K9/1641 A61K9/1664 A61K9/1688 A61K9/19 G16H50/20 Y02A90/26 Y02A90/22 A61B17/3203 A61M5/3015 G16H50/50 Y02A50/464 Y02A50/466 G06F19/00 G16B20/00

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US: 1/1 149/108.8 149/109.4 149/2 149/3 222/1 222/192 222/192S 222/1S 222/394 222/394S 222/395 222/566 222/566S 222/630 222/630S 222/71 222/71P 252/79.1 252/79.100S 264/28 264/28S 264/442 264/442P 422/139 422/139S 424/1.11 424/1.110P 424/1.110S 424/1.29 424/1.290P 424/1.49 424/1.490P 424/1.490S 424/1.61 424/1.610P 424/130.1 424/130.100S 424/133.1 424/133.100P 424/133.100S 424/141.1 424/141.100S 424/174.1 424/174.100S 424/184.1 424/184.1 424/184.100S 424/203.1 424/203.100S 424/209.1 424/209.100S 424/236.1 424/236.100S 424/238.1 424/238.100S 424/239.1 424/239.100S 424/277.1 424/277.100S 424/40 424/400 424/400P 424/400S 424/40S 424/440 424/440S 424/450 424/450S 424/451 424/451S 424/484 424/484S 424/486 424/486S 424/489 424/489P 424/489S 424/501 424/501P 424/600 424/600S 424/661 424/661S 424/700 424/700P 424/700S 424/718 424/718S 424/76.1 424/78.08 424/78.080S 424/9.1 424/9.1 424/9.100P 424/9.100S 424/9.3 424/9.300S 424/9.36 424/9.360S 424/9.4 424/9.400S 424/9.6 424/9.600S 424/93.1 424/93.100S 424/93.4 424/93.400S 424/93.6 424/93.600S 424/93.7 424/93.700S 424/93.71

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Family:

Publication number	Publication date	Application number	Application date
US2010111830 AA	20100506	US20080290664	20081031
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Priority:

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Probable Assignee: GEARBOX LLC

Assignee(s): (std): MYHRVOLD NATHAN P ; WOOD JR LOWELL L ; SWEENEY ELIZABETH A ; SEARETE LLC ; SEARETE LLC S LTD LIABILITY CO ; HYDE RODERICK A ; INVENTION SCIENCE FUND I LLC ; LEUTHARDT ERIC C ; BOYDEN EDWARD S ; COOK DANIEL B ; WOOD LOWELL L JR

Assignee(s): WOOD LOWELL L ; GEARBOX LLC ; SEARETE LLC A LIABILITY OF STATE DELAWARE CORP LTD ; SEARETE LLC A LIABILITY OF STATE OF DELAWARE CORP LTD ; SEARETE LLC A LIABILITY OF STATES OF DELAWARE CORP LTD ; SEARETE LLC S LIABILITY OF STATE OF DELAWARE CORP LTD ; SEARETE LLC A LIABILITY OF STATE OF DELWARE CORP LTD

Inventor(s): (std): MYHRVOLD NATHAN P ; WOOD JR LOWELL L ; SWEENEY ELIZABETH A ; BOYDEN EDWARD S ; HYDE RODERICK A ; COOK DANIEL B ; LEUTHARDT ERIC C ; WOOD LOWELL L JR

Inventor(s): WOOD LOWELL L

Agent(s): SEARETE LLC CLARENCE T TEGREENE; SEARETE LLC; INVENTION SCIENCE FUND CLARENCE T TEGREENE; MALASKA STEPHEN L ET AL

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

40) Family number: 41654140 (US2008099572A)

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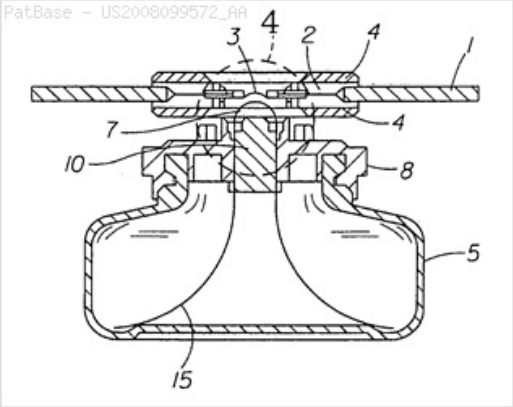
Title: DELIVERY SYSTEM FOR DISPENSING VOLATILES

Abstract: A liquid formulation with uniform consistency over extended periods of time, said method comprising the steps of: providing a liquid formulation in a container, said liquid formulation having a viscosity greater than five centipoise; driving, by means of a power source, a piezoelectric actuator which is coupled to an orifice plate so that the piezoelectric actuator vibrates said plate to produce and disperse fine droplets of said liquid formulation, said plate being formed with orifices having diameters in the range of 1-25 microns; said piezoelectric actuator operating in a bending mode; and during vibration of said plate, delivering said liquid formulation from said container to said plate by capillary action.

Classifications:

International (IPC 8-9): A61L9/12 B05B17/04

B05B17/06 (Advanced/Invention);
A61L9/12 B05B17/04 (Core/Invention)
CPC: A01M1/205 A61L9/14 B05B17/0646 B05B17/0684
European: A01M1/20C2L2 A61L9/14 B05B17/06B5F B05B17/06B7F2 L05B17/06B99B30B
US: 239/102.1 239/102.100 239/102.100S 239/102.2 239/102.200 239/102.200S 239/4 239/4P



Family:

Publication number	Publication date	Application number	Application date
US2008099572 AA	20080501	US20080903489	20080114
WO08035303 A2	20080327	WO2007IB53807	20070919
WO08035303 A3	20081016	WO2007IB53807	20070919

Priority:

US20060846455P 20060922 US20080903489 20080114

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): DIERSING STEVEN L ; DIERSING STEVEN LOUIS ; HECHT JOHN P ; HECHT JOHN PHILIP ; MAHONEY WILLIAM P III ; MAHONEY WILLIAM PAUL III ; TOLLENS FERNANDO RAY ; SCHROECK STEVEN JAMES ; PROCTER AND GAMBLE ; TOLLENS FERNANDO R ; SCHROECK STFEVEN J

Assignee(s): PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE COMPANY

Inventor(s): (std): TOLLENS FERNANDO R ; HECHT JOHN P ; DIERSING STEVEN L ; SCHROECK STFEVEN J ; MAHONEY WILLIAM P III ; TOLLENS FERNANDO RAY ; SCHROECK STEVEN JAMES ; HECHT JOHN PHILIP ; DIERSING STEVEN LOUIS ; MAHONEY WILLIAM PAUL III

Inventor(s): SCHROECK STFEVEN JAMES ; MAHONEY WILLIAM PAUL ; TOLLENS FERNANDO ; HECHT JOHN ; MAHONEY WILLIAM ; SCHROECK STFEVEN ; DIERSING STEVEN ; MAHONEY WILLIAM PIII

Agent(s): PROCTER AND GAMBLE CO INTELLECTUAL PROPERTY DIVISION WEST BLDG; THE PROCTER AND GAMBLE COMPANY

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

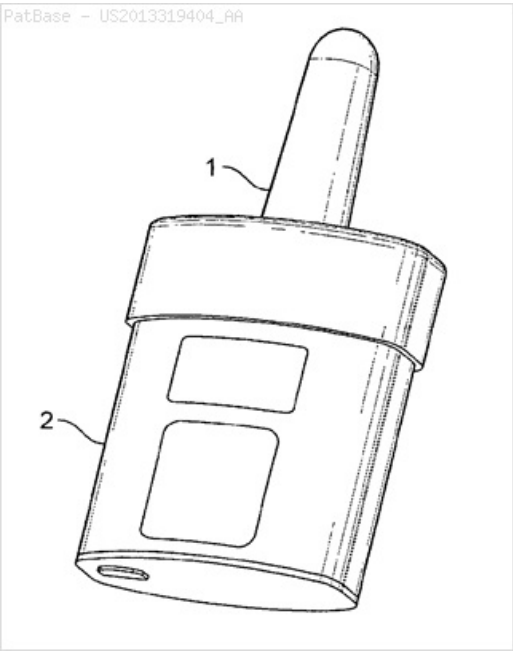
41) Family number: 48160142 (US2013319404A)

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Title: LIQUID DROPLET SPRAY DEVICE

Abstract: A liquid droplet spray device for ejecting a liquid as a spray of droplets has a cartridge (15) with a nozzle arrangement (13) to eject droplets, which is vibrated by a piezo element (23a) through the agency of an actuating element (23). A resonance chamber is disposed between an inner wall (15a) of the cartridge and the actuating element (23) such that the cartridge inner wall (15a) is separated by a gap having a length B from the actuating element (23), the cartridge inner wall (15a) being cap-shaped and extending along the side surfaces of the actuating element (23) and being frictionally attached to the side surfaces along a distance A. The resonance chamber (10) improves the efficiency of transmission of vibrations to the cartridge.

Classifications:
International (IPC 8-9): A24F47/00 A61M11/00 A61M15/00 A61M15/06 A61M15/08 B05B17/06 (Advanced/Invention)
International (IPC 1-7): A61M15/08 B05B17/06
CPC: A24F47/002 A61M2016/0024 A61M2016/0027 A61M2205/583 B05B17/0607 B05B17/0676 A61M15/06 A61M11/005 A61M15/0081 A61M15/0083 A61M15/0085 A61M15/08 A61M2016/0018 A61M2205/3317 A61M2205/502 A61M2205/60 A61M2205/8206 B05B17/0623 B05B17/0638 A61M15/009 B05B17/0615
European: A24F47/00B A61M11/00F A61M15/00F A61M15/06 A61M15/08 B05B17/06B B05B17/06B2 B05B17/06B5 B05B17/06B7F K61M15/00D4L K61M15/00D4T K61M16/00A10 K61M16/00A8B K61M16/00A8B4 K61M205/33E K61M205/50A K61M205/58D K61M205/60 K61M205/82B L05B17/06B5
US: 128/200.14 239/102.1 239/102.2



Family:

Publication number	Publication date	Application number	Application date
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US2013319404 AA	20131205	US20110883702	20111031
WO12062600 A1	20120518	WO2011EP68908	20111027
WO12062619 A1	20120518	WO2011EP69158	20111031

Priority:

GB20100018796 20101108 GB20110003692 20110304 WO2011EP68908 20111027 WO2011EP69158 20111031

Probable Assignee: BRITISH AMERICAN TOBACCO INVESTMENTS LTD

Assignee(s): (std): ANDERSSON FREDRIK ; BRITISH AMERICAN TOBACCO CO ; BRITISH AMERICAN TOBACCO INVESTIMENTS LTD ; TACHE CHRISTIAN ; FERIANI AMIR ; ZAUGG CEDRIC ; SANDOZ JEAN PAUL

Assignee(s): BRITISH AMERICAN TOBACCO INVESTMENTS LTD ; BRITISH AMERICAN TOBACCO INVESTMENTS LIMITED

Inventor(s): (std): TACHE CHRISTIAN ; ANDERSSON FREDRIK ; FERIANI AMIR ; AMIR FERIANI ; CHRISTIAN TACHE ; JEAN PAUL SANDOZ ; CEDRIC ZAUGG ; ZAUGG CEDRIC ; SANDOZ JEAN PAUL

Inventor(s): FREDRIK ANDERSSON

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; FETHERSTONHAUGH AND CO; READ MATTHEW CHARLES; READ MATTHEW ET AL

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

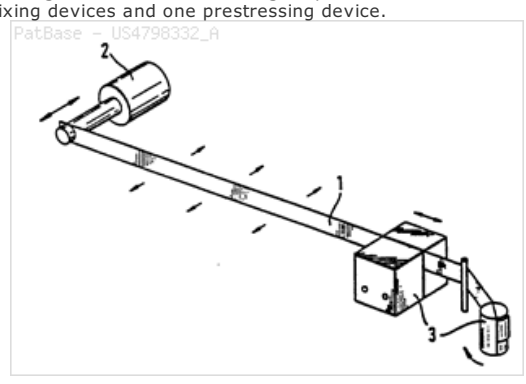
42) Family number: 2824145 (US4798332A)

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Title: Liquid atomizer

Abstract: The liquid atomizer consists essentially of an ultrasonic excitation system coupled with a narrow bending strip of so small thickness that it does not have sufficient inherent stability for linear alignment. In the case of excitation of bending waves with several essentially parallel, closely spaced nodal lines can be generated on the bending strip. Dimensional stability of the bending strip is achieved by at least one mechanical fixing devices and one prestressing device.

Classifications:
International (IPC 8-9): B05B17/06 (Advanced/Invention); B05B17/04 (Core/Invention)
International (IPC 1-7): B05B17/06 B05B3/14
CPC: B05B17/0607 B05B17/0684
European: B05B17/06B B05B17/06B7F2 L05B17/06B99B30B
US: 239/102.2 239/380 310/323 310/323.01



Family:

Publication number	Publication date	Application number	Application date
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DK34987 A0	19870122	DK19870000349	19870122
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Priority:

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Probable Assignee: BATTELLE INSTITUT E V

Assignee(s): (std)**:** BATTELLE INST E V ; BATTELLE INSTITUT E V

Assignee(s): BATTELLE INST EV

Inventor(s): (std)**:** FLOEGEL KARL ; FLOGEL KARL ; GROSSBACH RUDOLF ; HEIDE WOLFGANG ; JUNGER MARTIN ; HEIDE WOLFGANG M ; LIERKE ERNST GUENTER ; LIERKE ERNST GUNTER

Inventor(s): JUNGER MARTIN DIPL PHYS

Designated states: AT BE CH DE DK FR GB IT JP LI LU NL SE US

43) Family number: 31391152 (US2001032647A)

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Title: TEMPERATURE CONTROLLING DEVICE FOR AEROSOL DRUG DELIVERY

Abstract: A portable air temperature controlling device useful for warming air surrounding an aerosolized drug formulation is described. Warming the air of an aerosol makes it possible to reduce the size of aerosol particles produced by an aerosol generation device. Additionally, warming the air forces the size of the aerosol particles to be in the range required for systemic drug delivery independent of ambient conditions. Smaller particles can be more precisely targeted to different areas of the respiratory tract.

Classifications:

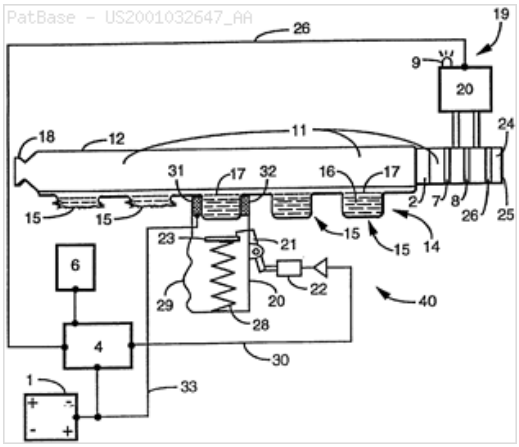
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A61M16/00 A61M16/10 A61M16/16 (Advanced/Non-invention);
A61M15/00 (Core/Invention);
A61M16/00 A61M16/10 (Core/Non-invention)

International (IPC 1-7): A45D20/10 A61M11/00 A61M11/02 A61M11/04 A61M15/00 A61M16/00 A62B18/00 A62B7/00 A62B9/00 B05B1/00 F22B7/06 F23D14/00 F24E6/00 F24H3/02 F24J3/00 G01K H01C3/00 H01C3/10 H05B3/02 H05B3/06 H05B3/50 H05B3/64

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European: A61M15/00 A61M15/00C2 C09D123/08 K61M15/00C2B6 K61M16/00A11 K61M16/00A14B4 K61M16/00A20 K61M16/00A8B2 K61M16/10H K61M16/10H10 K61M16/10H2 K61M16/10H3 K61M16/16 K61M16/16B K61M202/06A2 K61M205/33T K61M205/52

US: 128/200.11 128/200.24 128/200.240S 128/203.12 128/203.21 128/203.23 128/203.26 128/203.260P 128/203.27 128/204.17 128/204.170P 219/538 338/280 392/360 392/360P 392/379 392/379S 392/390



Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: ARADIGM CORP

Assignee(s): (std): ARADIGM CORP ; ELIAHU AVI ; FLAIM CHRISTOPHER J ; ROSELL JOAN ; SCHUSTER JEFFREY A

Inventor(s): (std): JEFFREY A SCHUSTER ; CHRISTOPHER J FLAIM ; GONDA IGOR ; FLAIM CHRISTOPHER J ; ELIAHU AVI ; ROSELL JOAN ; SCHUSTER JEFFREY A

Inventor(s): FLAIM CHRISTOPHER ; SCHUSTER JEFFREY

Agent(s): FB RICE; FB RICE PTY LTD; FETHERSTONHAUGH AND CO; SHIMIZU HATSUSHI; BOZICEVIC FIELD AND FRANCIS LLP; KARL

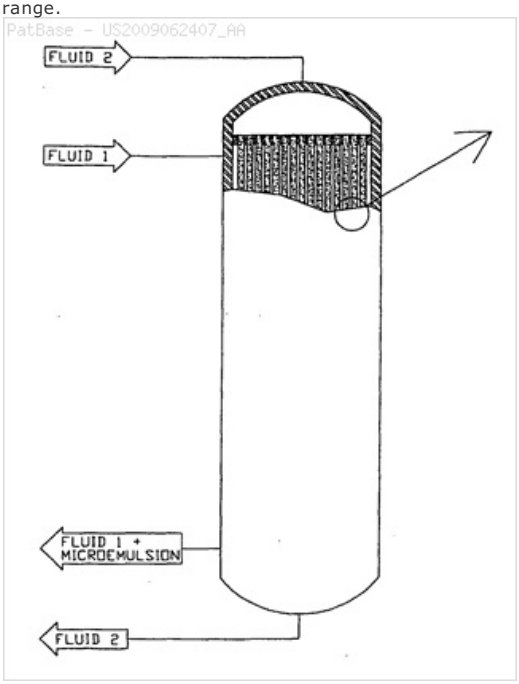
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44) Family number: 32121153 (US2009062407A)

Title: METHOD AND APPARATUS FOR PRODUCING MICRO EMULSIONS

Abstract: This invention relates to preparation of micro emulsions having a controlled size. It provides methods, measures, apparatus and products produced by the methods. The method is particularly suitable for preparing micro emulsions of water containing one or more ionic species in an oil and/or dense fluid phase such as CO2 containing fluids under near or supercritical conditions, thereby enabling the use of said dense fluids as solvents for extraction of ionic species, as nano-reactor templates and/or as a carrier for further processing such as deposition on a solid material and/or in a process for producing fine particles, such as particles in the nano- or micrometer range.

Classifications:
International (IPC 8-9): B01D11/00 B01D11/02 B01F11/00 B01F11/02 B01F3/04 B01F3/08 B01F5/02 B01F5/04 B01F5/10 B01F5/20 B01F7/00 B01J3/00 B05D1/02 (Advanced/Invention); B01D11/00 B01D11/02 B01F11/00 B01F3/04 B01F3/08 B01F5/00 B01F5/02 B01F5/04 B01F7/00 B01J3/00 B05D1/02 (Core/Invention)
International (IPC 1-7): B01F11/02 B01F3/08 B01F5/02 B01F5/04 B01F5/10 B01F5/20 B01F7/00
CPC: B01F7/008 B01D11/00 B01D11/0496 B01F3/0811 B01F3/0819 B01F3/0865 B01F5/0206 B01F5/0476 B01F5/102 B01F5/106 B01F5/20 B01F7/00833 B01F11/0077 B01F11/0266 B01F2003/0064 B01F2215/0431 B01F2215/0454 B01F2215/0468 B01F2215/0472 B01F2215/0481 B82Y30/00
European: B01D11/00 B01D11/04U B01F11/00M B01F11/02H B01F3/08C1 B01F3/08C3B B01F3/08F1 B01F5/02B B01F5/04C14C2 B01F5/10B B01F5/10F B01F5/20 B01F7/00G2 B01F7/00G2D B01F7/00G5 B82Y30/00 L01F215/04F2F L01F215/04F4H L01F215/04F4N L01F215/04F4P L01F215/04F4T L01F3/00D6
US: 516/10 516/10P



Family:

Publication number	Publication date	Application number	Application date
EP1706198 A2	20061004	EP20050700586	20050121
US2009062407 AA	20090305	US20050586979	20050121
WO05070527 A2	20050804	WO2005DK00036	20050121
WO05070527 A3	20050909	WO2005DK00036	20050121

Priority:

DK20040000083 20040122 WO2005DK00036 20050121

Probable Assignee: SCF TECHNOLOGIES A S

Assignee(s): (std): FELSVANG KARSTEN ; IVERSEN STEEN BRUMMERSTEDT ; LACK EDUARD ; LARSEN TOMMY ; LUETHJE VIGGO ; SCF TECHNOLOGIES AS

Assignee(s): SCF TECHNOLOGIES A S

Inventor(s): (std): IVERSEN STEEN BRUMMERSTEDT ; LARSEN TOMMY ; LUETHJE VIGGO ; FELSVANG KARSTEN ; LACK EDUARD ; LUTHJE VIGGO

Agent(s): KNOBBE MARTENS OLSON AND BEAR LLP

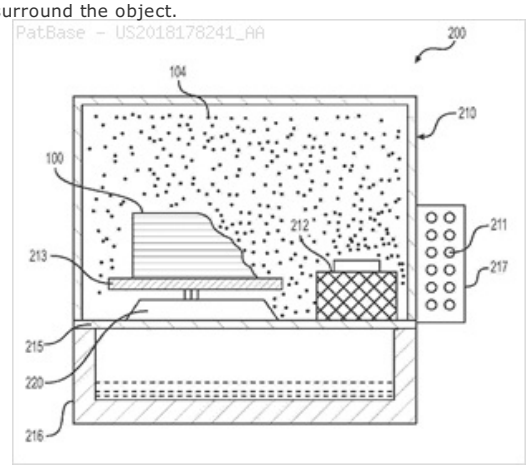
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45) Family number: 64458154 (US2018178241A)

Title: APPARATUSES FOR PROCESSING ADDITIVE MANUFACTURED OBJECTS AND METHODS OF USE

Abstract: An apparatus (**200**) for smoothing a surface of an object (**100**). The apparatus includes a chamber (**210**), a reservoir (**324**) configured to hold a liquid (**322**), and a nebulizer assembly (**212**) configured to generate a mist (**104**) from the liquid into the chamber. The nebulizer assembly includes a mesh (**732**), a vibrating element (**731**), and a wick (**736**). The object is received in the chamber and the mist is configured to surround the object.

Classifications:
International (IPC 8-9): B05B17/06 B05C11/10 B05C3/109 B29C64/35 B29C71/00 (Advanced/Invention)
CPC: B05B7/1666 B05B7/2424 B05B13/0242 B05B17/0615 B29C64/35 B29C71/0009 B05C3/109 B05C11/1002 B29C64/118
US: 1/1 118/706



Family:

Publication number	Publication date	Application number	Application date
CN107635756 A	20180126	CN201580079689	20150616
CN107848227 A	20180327	CN201680028207	20160426
EP3310562 A1	20180425	EP20160810835	20160426
EP3310562 A4	20190327	EP20160810835	20160426
EP3459720 A1	20190327	EP20180200852	20160426
US2018178241 AA	20180628	US20160736702	20160426
US2019151886 AA	20190523	US20190257762	20190125
WO16201614 A1	20161222	WO2015CN081512	20150616
WO16202094 A1	20161222	WO2016CN080225	20160426

Priority:

WO2015CN081512 20150616 EP20160810835 20160426 WO2016CN080225 20160426
US20170736702 20171214 US20190257762 20190125

Probable Assignee: JF POLYMERS SUZHOU CO LTD

Assignee(s): (std)**:** JF POLYMERS SUZHOU CO LTD

Assignee(s): JF POLYMERS SUZHOU CO

Inventor(s): (std)**:** LUO XIAOFAN ; PEI ZHAOKUN ; ZHAO JUNHENG ; TRUCHSESS JULIA D ; PEI XHAOKUN

Agent(s): FINNEGAN EUROPE LLP; SUZHOU GROUNZE INTELLECTUAL PROPERTY AGENCY CO LTD; CHANG TSI AND PARTNERS

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

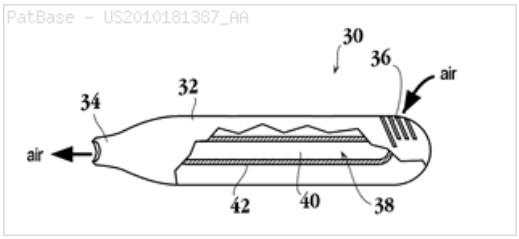
46) Family number: 46170154 (US2010181387A)

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Title: AEROSOL DELIVERY SYSTEM AND USES THEREOF

Abstract: A device, method, and system for producing a condensation aerosol are disclosed. The device includes a chamber having an upstream opening and a downstream opening which allow gas to flow through the chamber, and a heat-conductive substrate located at a position between the upstream and downstream openings. Formed on the substrate is a drug composition film containing a therapeutically effective dose of a drug when the drug is administered in aerosol form. A heat source in the device is operable to supply heat to the substrate to produce a substrate temperature greater than 300 oC, and to substantially volatilize the drug composition film from the substrate in a period of 2 seconds or less. The device produces an aerosol containing less than about 10 percent by weight drug composition degradation products and at least 50 percent of the drug composition of said film.

Classifications:
International (IPC 8-9): B05C1/00 (Advanced/Invention); B05C1/00 (Core/Invention)
CPC: A61M15/06 A61M11/042 A61M2205/3653 A61M2205/8206 A61M11/001 A61M11/005 A61M11/048
European: A61M15/06 K61M11/04H2 K61M205/36J K61M205/82B
US: 239/128 239/128S 239/13 239/13P



Family:

Publication number	Publication date	Application number	Application date
US2010181387 AA	20100722	US20090628949	20091201

Priority:

US20050283414 20051117 US20060460530 20060727 US20070687466 20070316
US20090628949 20091201

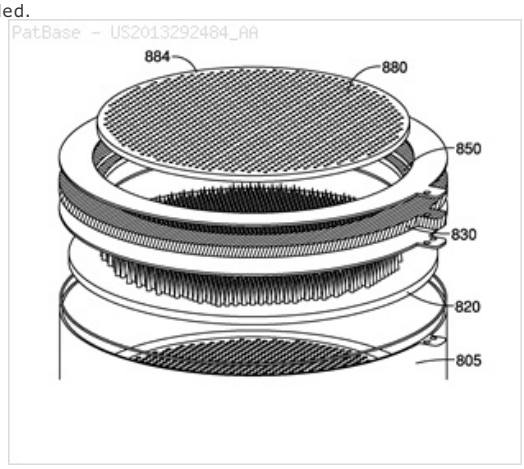
Probable Assignee: ALEXZA PHARMACEUTICALS INC

Assignee(s): (std): RABINOWITZ JOSHUA D ; ZAFFARONI ALEJANDRO C
Assignee(s): ALEXZA PHARMACEUTICALS INC
Inventor(s): (std): ZAFFARONI ALEJANDRO C ; RABINOWITZ JOSHUA D
Agent(s): WILSON SONSINI GOODRICH AND ROSATI

47) Family number: 55051156 (US2013292484A)

Title: DELIVERY SYSTEM COMPRISING IMPROVED VOLATILE COMPOSITIONS

Abstract: Delivery systems comprising improved volatile compositions are provided. The delivery system comprises an electromechanical actuator for emitting the improved composition into the air, whereby scent longevity, perfume character, room fill, and/or functional benefits (e.g. odor elimination) are provided.
Classifications:
International (IPC 8-9): A01M1/20 A61L9/01 A61L9/14 B05B17/00 B05B17/06 C11B9/00 (Advanced/Invention)
CPC: A61M15/0085 B05B17/0669 B05B17/0684 A61L9/14 B05B17/0646 A01M1/205 A61L2209/111 A61L2209/131 A61M11/005
US: 239/102.2 239/4



Family:

Publication number	Publication date	Application number	Application date
DE602013016456 D1	20170223	DE201360016456T	20130423
EP2841207 A2	20150304	EP20130721195	20130423
EP2841207 B1	20170111	EP20130721195	20130423
ES2620081 T3	20170627	ES20130721195T	20130423
JP2015521058 T2	20150727	JP20150509075T	20130423
JP2017018601 A2	20170126	JP20160144950	20160722
KR20140137011 A	20141201	KR20147029722	20130423
MX2014012817 A1	20150122	MX20140012817	20130423
US2013292484 AA	20131107	US20130869998	20130425
WO13163163 A2	20131031	WO2013US37772	20130423
WO13163163 A3	20131219	WO2013US37772	20130423

Priority:

US20120639112P 20120427 EP20130721195 20130423 JP20150509075T 20130423
WO2013US37772 20130423 US20130869998 20130425 JP20160144950 20160722

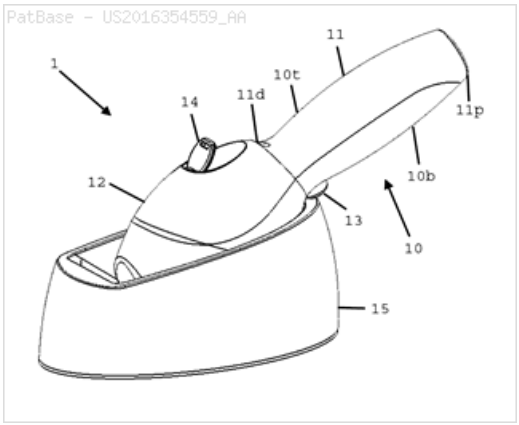
Probable Assignee: PROCTER AND GAMBLE CO
Assignee(s): (std): PROCTER AND GAMBLE
Assignee(s): PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE CO CINCINNATI
Inventor(s): (std): JACKSON RHONDA JEAN ; DIERSING STEVEN LOUIS ; MORGAN III GEORGE KAVIN ; TURNER RONALD DAVID ; GRUENBACHER DANA PAUL ; DAVID RONALD ; MORGAN GEORGE KAVIN III ; DANA PAUL GRUENBACHER ; RHONDA JEAN JACKSON ; RONALD DAVID TURNER ; DIERSING STEVEN ; GRUENBACHER DANA ; MORGAN III GEORGE ; JACKSON RHONDA ; TURNER RONALD ; GEORGE KAVIN MORGAN III
Inventor(s): STEVEN LOUIS DIERSING ; JACKSON RHONDA JEAN CINCINNATI ; DIERSING STEVEN LOUIS CINCINNATI ; GRUENBACHER DANA PAUL FAIRFIELD ; MORGAN III GEORGE KAVIN HAMILTON ; TURNER RONALD DAVID WALTON ; RONALD DAVID
Agent(s): PIERCE CHRISTOPHER JAMES; KELLENBERGER JAKOB; DEL VALLE SONIA; TANI AND ABE PC; GUFFEY TIMOTHY B
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

48) Family number: 64276157 (US2016354559A)

Title: FLUID DELIVERY DEVICES AND METHODS

Abstract: Methods, systems, and devices are provided for generating a mist. In one embodiment, a fluid delivery device is provided that includes a housing, a fluid vaporizer disposed within the housing and configured to receive fluid and to produce an aerosol mist of liquid particles from the fluid, and a pump configured to accelerate the aerosol mist produced by the fluid vaporizer. Methods are provided for producing a mist, and the methods can include delivering a fluid to a fluid vaporizer that generates a first mist. The fluid vaporizer delivers the mist to a pump that generates a second mist from the first mist.
Classifications:
International (IPC 8-9): A45D34/00 A61F9/00 A61K31/546 A61K31/7036 A61K31/7052 A61K38/12 A61K9/00 A61K9/12 A61M11/00 A61M11/02 A61M11/08 A61M15/00 A61M21/00

A61M31/00 A61M35/00 A61M37/00 A61M5/30 B05B11/00 B05B15/06 B05B17/00 B05B17/06 (Advanced/Invention);
A61M21/00 (Advanced/Non-invention)
CPC: A61M2230/005 A61M15/009 A61M2205/3327 A61K31/546 A61K31/7036 A61K31/7052 A61K38/12 A61M11/001 A61M11/005 A61M15/0003 A61M15/0085 A61M35/003 A61M2021/0066 A61M2021/0072 A61M2205/07 A61M2205/13 A61M2205/276 A61M2205/332 A61M2205/3561 A61M2205/3569 A61M2205/3592 A61M2205/36 A61M2205/50 A61M2205/6018 A61M2205/8206 A61M2205/8237 A61M2206/20 A61M2209/086 A61M2230/63 B05B17/0646 A61K9/0014 A61K9/12 A61M11/007 A61M35/00 A61M2210/04 A45D34/00 A45D2200/057 A61F9/0008 A61M5/30 A61M31/00 A61M2210/0625 A61M2210/0662 A61M2210/1067 A61M2210/1475 B05B11/00 B05B15/62 B05B17/0676 A61M35/30
US: 1/1 128/200.14



Family:

Publication number	Publication date	Application number	Application date
AU2016270999 AA	20171207	AU20160270999	20160603
AU2016270999 BB	20180726	AU20160270999	20160603
AU2018253533 AA	20181115	AU20180253533	20181024
CA2986813 AA	20171121	CA20162986813	20160603
CN108348696 A	20180731	CN201680045580	20160603
EP3302658 A1	20180411	EP20160731423	20160603
EP3302658 B1	20190904	EP20160731423	20160603
IN201727042246 A	20180316	IN201727042246	20171124
JP2018516734 T2	20180628	JP20180515190T	20160603
JP6557409 B2	20190807	JP20180515190T	20160603
KR20180039617 A	20180418	KR20187000089	20160603
MX2017015402 A1	20180706	MX20170015402	20160603
US2016354559 AA	20161208	US20160173142	20160603
US2017274159 AA	20170928	US20170609585	20170531
US9700686 BB	20170711	US20160173142	20160603
WO16196915 A1	20161208	WO2016US35695	20160603

Priority:

US20150170216P 20150603 AU20160270999 20160603 US20160173142 20160603
WO2016US35695 20160603 US20170609585 20170531 AU20180253533 20181024

Probable Assignee: NOVOPYXIS INC

Assignee(s): (std)**:** NOVOPYXIS INC

Assignee(s): SRINIVAS RAJA ; SRINIVAS RATHI L ; DROPLETTE INC ; GAVINI MADHAVI

Inventor(s): (std)**:** GAVINI MADHAVI ; SRINIVAS RATHI L ; SRINIVAS RAJA ; RAJA SRINIVAS ; RATHI L SRINIVAS ; MADHAVI GAVINI

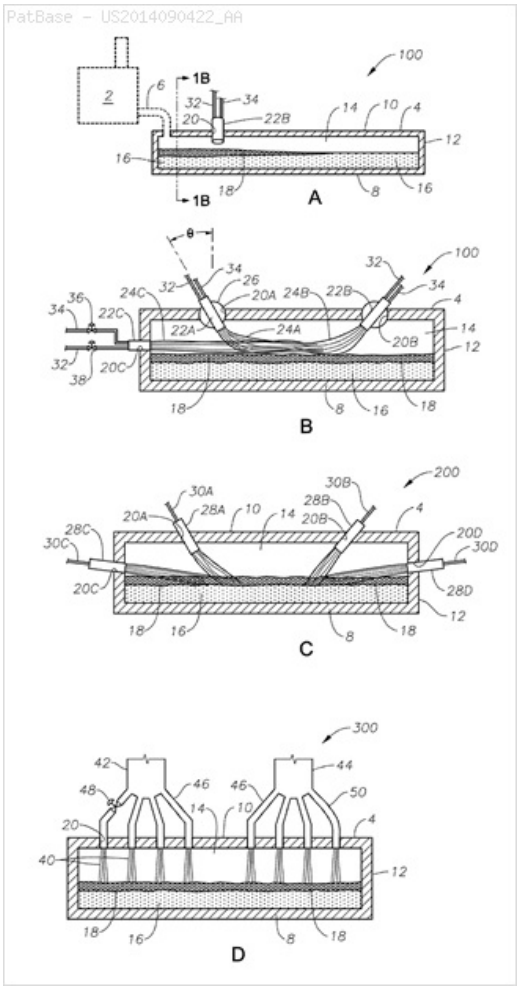
Agent(s): FPA PATENT ATTORNEYS PTY LTD; RICHES MCKENZIE AND HERBERT LLP; CARPMAELS AND RANSFORD LLP; NAGATA YUTAKA; MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO PC; ADAMS LISA ET AL

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

49) Family number: 56138158 (US2014090422A)

Title: METHODS AND SYSTEMS FOR DESTABILIZING FOAM IN EQUIPMENT DOWNSTREAM OF A SUBMERGED COMBUSTION MELTER

Abstract: Methods and systems for de-stabilizing foam produced in submerged combustion melters. A molten mass of glass and bubbles is flowed into an apparatus downstream of a submerged combustion melter. The downstream apparatus includes a floor, a roof and a wall connecting the floor and roof, but is devoid of submerged combustion burners and other components that would increase turbulence of the molten mass. The molten mass has foam on at least a portion of a top surface of the molten mass. One method includes directly impinging an impinging composition onto at least a portion of the foam in the downstream apparatus. Systems for carrying out the methods are described.
Classifications:
International (IPC 8-9): B05B1/34 C03B5/16 C03B5/20 C03B5/225 C03B5/235 F23C5/08 F23D14/22 F23D14/32 (Advanced/Invention)
CPC: B05B1/3405 C03B5/202 C03B5/225 C03B5/235 C03B5/2356 F23C5/08 F23C2205/10 F23C2205/20 F23D14/22 F23D14/32 C03B5/04 C03B5/2353 C03B5/44 C03B2211/22 C03B2211/23 C03B2211/70 Y02P40/55 Y02P40/57 C03B2211/40
US: 1/1 65/134.4 65/346



Family:

Publication number	Publication date	Application number	Application date
EP2903941 A1	20150812	EP20130844052	20130905
EP2903941 A4	20160608	EP20130844052	20130905
US2014090422 AA	20140403	US20120644058	20121003
US2017015579 AA	20170119	US20160277342	20160927
US9492831 BB	20161115	US20120644058	20121003
WO14055199 A1	20140410	WO2013US58281	20130905

Priority:

US20100817754 20100617 US20120458211 20120427 US20120540771 20120703
US20120644058 20121003 WO2013US58281 20130905 US20160277342 20160927

Probable Assignee: JOHNS MANVILLE

Assignee(s): (std)**:** JOHNS MANVILLE

Inventor(s): (std)**:** CHARBONNEAU MARK WILLIAM ; HUBER AARON MORGAN

Agent(s): MAI DOERR BESIER; ROBERT D; TOUSLEE ROBERT 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 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

50) Family number: 43754159 (US2011014542A)

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Title: FIBER MANUFACTURING METHOD, FIBER MANUFACTURING APPARATUS AND PROTON-EXCHANGE MEMBRANE FUEL CELL

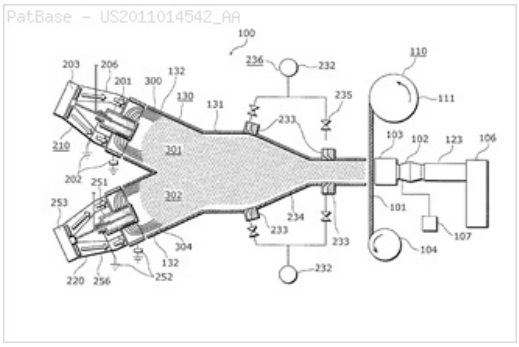
Abstract: A carried material is carried only on a surface of nano-fibers. It includes a raw material liquid spray step that sprays raw material liquid (300), which is a raw material of nano-fibers (301), into a space, a raw material liquid electrically charging step, which applies an electric charge to the raw material liquid (300) and makes the raw material liquid electrically charged, a nano-fiber manufacturing step that manufactures the nano-fibers (301) by having the electrically'charged and sprayed raw material liquid (300) explode electrostatically, a carried material electrically charging step that electrically charges a carried material (302) carried on the nano-fibers (301) with a polarity opposite to a polarity of the electrically charged nano-fibers (301), and a mixing step that mixes the said manufactured nano-fibers (301) and the electrically charged carried material (302) in a space.

Classifications:

International (IPC 8-9): B01J35/06 B01J37/02 B01J37/04 B01J37/34 B05D5/12 B29C47/64 B29C48/67 D01D5/00 D01D5/04 D04H1/728 H01M4/86 H01M4/88 H01M8/00 H01M8/10 (Advanced/Invention);
B01J35/06 D01D5/00 H01M4/86 H01M8/10 (Advanced/Non-invention);
B01J35/00 B01J37/00 D01D5/00 H01M4/86 H01M4/88 H01M8/00 H01M8/10 (Core/Invention)

CPC: H01M4/881 D01D5/0061 D01D5/18 D01D13/02 D01F11/04

H01M2008/1095 Y02P70/56
European: D01D13/02 D01D5/00E4 D01D5/18 D01F11/04 H01M4/88B4 H01M8/10B2A T01M8/10P Y02E60/52B
US: 264/465 264/465S 425/7 425/7S 427/115 427/115S 429/480 429/480P 429/532 502/101



Family:

Publication number	Publication date	Application number	Application date
CN101960057 A	20110126	CN200980107172	20090309
CN101960057 B	20130313	CN200980107172	20090309
DE112009000438 T5	20110317	DE200911000438T	20090309
JP2009215684 A2	20090924	JP20080063190	20080312
JP2010049845 A2	20100304	JP20080211218	20080819
JP4939467 B2	20120523	JP20080063190	20080312
JP5330764 B2	20131030	JP20080211218	20080819
KR20100124264 A	20101126	KR20107019440	20090309
US2011014542 AA	20110120	US20090921847	20090309
US8383539 BB	20130226	US20090921847	20090309
WO09113290 A1	20090917	WO2009JP01050	20090309

Priority:
JP20080063190 20080312 JP20080211218 20080819 WO2009JP01050 20090309

Probable Assignee: PANASONIC CORP

Assignee(s): (std): ISHIKAWA KAZUNORI ; KUROKAWA TAKAHIRO ; MATSUSHITA ELECTRIC IND CO LTD ; MATSUSHITA ELECTRIC INDUSTRIAL CO LTD ; MITSUSHIMA TAKATOSHI ; TOMINAGA YOSHIAKI ; TAKAHASHI MITSUHIRO ; SUMIDA HIROTO ; TAKEZAWA MIKIO ; PANASONIC CORP

Assignee(s): MATSUSHITA ELECTRIC INDUSTRIAL CO

Inventor(s): (std): HIROTO SUMIDA ; ISHIKAWA KAZUNOBU ; KUROKAWA TAKAHIRO ; ISHIKAWA KAZUNORI ; MIKIO TAKEZAWA ; KAZUNORI ISHIKAWA ; TAKEZAWA MIKIO ; TAKAHASHI MITSUHIRO ; SUMIDA HIROTO ; MITSUSHIMA TAKATOSHI ; SUMITA HIROTO ; TAKATOSHI MITSUSHIMA ; MITSUHIRO TAKAHASHI ; TAKAHIRO KUROKAWA ; TOMINAGA YOSHIAKI ; YOSHIAKI TOMINAGA

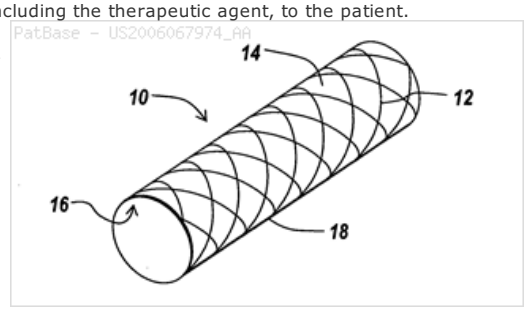
Agent(s): WENDEROTH LIND AND PONACK LLP; NII HIROMORI

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

51) Family number: 32764164 (US2006067974A)

Title: DRUG DELIVERY COATING FOR USE WITH A STENT

Abstract: A coated medical device an a method of providing a coating on an implantable medical device result in a medical device having a bio-absorbable coating. The coating includes a bio-absorbable carrier component. In addition to the bio-absorbable carrier component, a therapeutic agent component can also be provided. The coated medical device is implantable in a patient to effect controlled delivery of the coating, including the therapeutic agent, to the patient.



Classifications:
International (IPC 8-9): A01N43/00 A61B1/32 A61F13/00 A61F13/02 A61F2/00 A61F2/02 A61F2/06 A61F2/28 A61F2/82 A61F2/86 A61K31/00 A61K31/16 A61K31/20 A61K31/202 A61K31/215 A61K31/225 A61K31/33 A61K31/337 A61K31/355 A61K31/366 A61K31/395 A61K31/405 A61K31/4353 A61K31/436 A61K31/44 A61K31/445 A61K31/453 A61K31/4545 A61K31/4709 A61K31/496 A61K31/7028 A61K31/7036 A61K31/7088 A61K31/727 A61K33/00 A61K33/24 A61K35/60 A61K38/00 A61K38/13 A61K38/14 A61K45/00 A61K47/06 A61K47/10 A61K47/12 A61K47/14 A61K47/22 A61K47/44 A61K48/00 A61K49/00 A61K6/00 A61K8/02 A61K9/00 A61K9/06 A61K9/10 A61K9/14 A61K9/16 A61K9/24 A61K9/28 A61K9/70 A61L15/16 A61L15/20 A61L15/44 A61L2/07 A61L2/08 A61L2/14 A61L2/20 A61L26/00 A61L27/00 A61L27/28 A61L27/36 A61L27/52 A61L27/54 A61L29/00 A61L29/08 A61L29/12 A61L29/14 A61L29/16 A61L31/00 A61L31/08 A61L31/10 A61L31/12 A61L31/14 A61L31/16 A61L33/00 A61M1/12 A61M25/00 A61M31/00 A61M35/00 A61P29/00 A61P3/00 A61P35/00 A61P37/00 A61P41/00 A61P43/00 A61P7/02 A61P9/00 B05B13/04 B05C1/00 B05C11/02 B05C13/02 B05C3/00 B05C3/109 B05D1/00 B05D1/02 B05D1/18 B05D1/28 B05D3/00 B05D3/02 B05D3/06 B05D5/00 B05D5/08 B05D7/00 B26F1/18 B29C39/02 B65B31/04 B65B55/02 B65B55/12 B65B55/18 C07C53/00 C07C57/00 C07D307/02 (Advanced/Invention); A61F2/06 A61F2/82 B05D3/06 (Advanced/Non-invention);
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A61L (Subclass/Invention)
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Family:

Publication number	Publication date	Application number	Application date
AU2006304590 AA	20070426	AU20060304590	20061016
AU2007300608 AA	20080403	AU20070300608	20070914
BRPI0717412 A2	20131112	BR2007PI17412	20070914
CA2626030 AA	20080414	CA20062626030	20061016
CA2663741 AA	20090318	CA20072663741	20070914
CN102256565 A	20111123	CN200880132279	20081203
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CN102307469 A	20120104	CN200980149358	20090317
CN102753118 A	20121024	CN201080047130	20101015
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EP1811935 B1	20160330	EP20050858430	20050928
EP1812022 A2	20070801	EP20050802894	20050928
EP1812022 A4	20110831	EP20050802894	20050928
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EP1819297 A2	20070822	EP20050800844	20050928
EP1819297 A4	20110928	EP20050800844	20050928
EP1819297 B1	20150114	EP20050800844	20050928
EP1933991 A2	20080625	EP20060826208	20061016
EP1933991 A4	20120502	EP20060826208	20061016
EP2083875 A2	20090805	EP20070867319	20071030
EP2083875 B1	20130327	EP20070867319	20071030
EP2086605 A2	20090812	EP20070838216	20070914
EP2183002 A1	20100512	EP20080782511	20080730
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EP2185294 A1	20100519	EP20080796836	20080730
EP2185294 A4	20140910	EP20080796836	20080730
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EP2344067 A4	20120912	EP20080877338	20081203
EP2348844 A1	20110803	EP20090819594	20090317
EP2348844 A4	20120912	EP20090819594	20090317
EP2348844 B1	20190109	EP20090819594	20090317
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EP2626091 A1	20130814	EP20120004057	20071030
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IL197738 A0	20091224	IL20070197738	20070914
IN01635CN2009 A	20160831	IN2009CN01635	20090323
IN03605DN2012 A	20160831	IN2012DN03605	20120425
IN287766 B	20170929	IN2011DN03395	20110506
JP2009511215 T2	20090319	JP20080535802T	20061016
JP2010504327 T2	20100212	JP20090529197T	20070914

JP2010508897 T2	20100325	JP20090535299T	20071030
JP2012505025 T2	20120301	JP20110531009T	20081203
JP2012505030 T2	20120301	JP20110531038T	20090317
JP2013233456 A2	20131121	JP20130172914	20130823
JP2013508033 T2	20130307	JP20120534404T	20101015
JP2014061444 A2	20140410	JP20130266902	20131225
JP2015198983 A2	20151112	JP20150136955	20150708
JP2016104197 A2	20160609	JP20160002239	20160108
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US2014308333 AA	20141016	US20140252671	20140414
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US2018008650 AA	20180111	US20170710514	20170920
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US9827352 BB	20171128	US20150679368	20150406
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US9844611 BB	20171219	US20160001585	20160120
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US10285964 BB	20190514	US20160216873	20160722

WO06036964 A2	20060406	WO2005US34601	20050928
WO06036964 A3	20060713	WO2005US34601	20050928
WO06036967 A1	20060406	WO2005US34610	20050928
WO06036969 A2	20060406	WO2005US34614	20050928
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WO06036970 A2	20060406	WO2005US34615	20050928
WO06036970 A3	20060817	WO2005US34615	20050928
WO06036982 A2	20060406	WO2005US34679	20050928
WO06036982 A3	20141016	WO2005US34679	20050928
WO06036983 A2	20060406	WO2005US34681	20050928
WO06036983 A3	20060914	WO2005US34681	20050928
WO06036984 A2	20060406	WO2005US34682	20050928
WO06036984 A3	20060908	WO2005US34682	20050928
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WO06037049 A3	20060831	WO2005US34836	20050928
WO06037080 A2	20060406	WO2005US34941	20050928
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WO07011385 A2	20070125	WO2005US34678	20050928
WO07011385 A3	20070315	WO2005US34678	20050928
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WO08039308 A2	20080403	WO2007US19978	20070914
WO08039308 A3	20090618	WO2007US19978	20070914
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WO08057328 A3	20090604	WO2007US22860	20071030
WO08057344 A2	20080515	WO2007US22944	20071030
WO08057344 A3	20090528	WO2007US22944	20071030
WO08097418 A2	20080814	WO2008US00565	20080116
WO08097418 A3	20090611	WO2008US00565	20080116
WO09018313 A1	20090205	WO2008US71547	20080730
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WO10042134 A1	20100415	WO2008US85386	20081203
WO10042241 A1	20100415	WO2009US37364	20090317
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WO10104790 A3	20140403	WO2010US26521	20100308
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Priority:

US20040613745P	20040928	US20040613808P	20040928	EP20050800844	20050528
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Probable Assignee: ATRIUM MEDICAL CORP

Assignee(s): (std)**:** AVELLA MARK D ; BIENKIEWICZ JOE ; BROMANDER EDWARD ; CARLTON TREVOR ; FERRARO JOSEPH ; HERWECK STEVE A ; FAUCHER KEITH ; CHENEL RICK ; CONROY SUZANNE ; HENRICH GEORGETTE ; HERWECK STEVE ; FAUCHER KEITH M ; CORBELL SCOTT E ; CORBEIL SCOTT E ; DALE ALICIA ; FERRARO JOSEPH F ; MOODIE GEOFFREY ; ROGERS LISA ; MARTAKOS PAUL ; KARWOSKI THEODORE ; MCNAMARA PHILIP ; QUIGLEY WILLIAM ; SUNTER BRIAN ; SWANICK THOMAS M ; LABRECQUE ROGER ; MACNAMARA PHILIP ; TANG HUI ; HORTON ANTHONY RICHARD ; PROWSE JOCELYN ; MELVILLE GREG ; SULLIVAN ALLISON ; ATRIUM MEDICAL CORP

Assignee(s): ATRIUM MEDICAL CORP HUDSON

Inventor(s): (std)**:** MOODIE GEOFFREY ; LABRECQUE ROGER ; MCNAMARA PHILIP ; FERRARO JOSEPH ; ROGERS LISA ; MARTAKOS PAUL ; KARWOSKI THEODORE ; HERWECK STEVE A ; FAUCHER KEITH ; SWANICK THOMAS M ; QUIGLEY WILLIAM ; AVELLA MARK D ; CHENEL RICK ; CONROY SUZANNE ; SUNTER BRIAN ; HENRICH GEORGETTE ; MACNAMARA PHILIP ; HERWECK STEVE ; CARLTON TREVOR ; FAUCHER KEITH M ; HORTON ANTHONY R ; HORTON ANTHONY RICHARD ; CORBEIL SCOTT E ; BROMANDER EDWARD ; CORBELL SCOTT E ; PAUL MARTAKOS ; HUI TANG ; JOSEPH FERRARO ; THEODORE KARWOSKI ; GREG MELVILLE ; ALLISON SULLIVAN ; NAMARA PHILIP MC ; TANG HUI ; PROWSE JOCELYN ; MELVILLE GREG ; SULLIVAN ALLISON ; BIENKIEWICZ JOE ; DALE ALICIA ; THOMAS M SWANICK ; CORBEIL SCOTT ; CHOROSZY JOCELYN ; JOE BIENKIEWICZ ; ALICIA DALE ; MCNAMARA PHILLIP ; FERRARO JOSEPH F ; HERWECK STEVEN A ; GREGG MELVILLE

Inventor(s): PHILIP MCNAMARA ; CHOROSZY JOCELYN WESTFORD ; TREVOR CARLTON ; SUZANNE CONROY ; PHILIP MC NAMARA ; MC NAMARA PHILIP ; HORTON ANTHONY ; SWANICK THOMAS ; AVELLA MARK ; FERRARO JOSEPH LONDONDERRY ; HERWECK STEVE A NASHUA ; FAUCHER KEITH M MILFORD ;

HORTON ANTHONY RICHARD MANCHESTER ; PROWSE JOCELYN WALTHAM ; MARTAKOS PAUL PELHAM ; FAUCHER KEITH MILFORD ; LABRECQUE ROGER LONDONBERRY ; MCNAMARA PHILIP CONCORD ; HERWECK STEVE NASHUA ; ROGERS LISA LONDONDERRY ; KARWOSKI THEODORE HOLLIS ; SWANICK THOMAS M HILLSBOROUGH ; FAUCHER KEITH NASHUA ; LABRECQUE ROGER LONDONDERRY ; ROGER LABRECQUE ; KEITH M FAUCHER ; STEVE A HERWECK ; LISA ROGERS

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; BERESKIN AND PARR; BERESKIN AND PARR LLP SENCRL SRL; WAGNER AND HELBIG PATENTANWAELTE; HELBIG CHRISTIAN; TOMLINSON EDWARD JAMES; OSAKABE SUGURU; SHIMIZU HATSUSHI; KAWAMOTO KAZUYA; LAHIVE AND COCKFIELD LLP; LAHIVE AND COCKFIELD; LAHIVE AND COCKFIELD LLP FLOOR 30 SUITE 3000; MORSE BARNES BROWN AND PENDLETON PC; SEAN D; MORSE BARNES BROWN AND PENDELTON PC; WESLEY SCOTT; WESLEY SCOTT ASHTON; ASHTON WESLEY SCOTT; CANNING KEVIN J ET AL; DETWEILER SEAN D

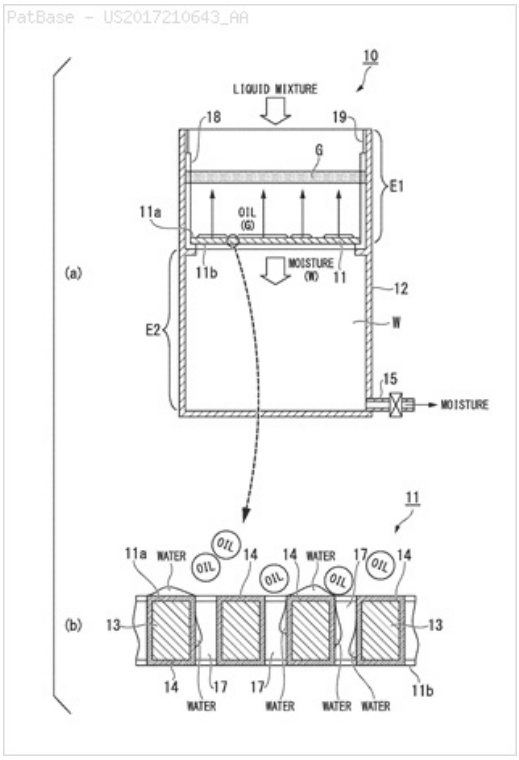
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY 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 YU ZA ZM ZW

52) Family number: 61604175 (US2017210643A)

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Title: OIL-WATER SEPARATION APPARATUS AND DRAINAGE SYSTEM

Abstract: An oil-water separation apparatus is provided which can easily separate and collect oil from a liquid mixture containing water and oil at low cost. The oil-water separation apparatus includes an oil-water-separating member configured to separate a liquid mixture containing water and oil into moisture and oil, and a liquid reservoir subdivided into an upper region and a lower region by the oil-water-separating member. The oil-water separation apparatus filters the liquid mixture by gravity. The oil-water-separating member includes a base which includes a channel for the liquid mixture. The oil-water-separating member is formed in the base, and the oil-water-separating member contains a fluorine compound which has an oil-repellency-imparting group and a hydrophilicity-imparting group. A drain port for discharging the moisture is formed in the lower region of the liquid reservoir.



Classifications:
International (IPC 8-9): A41D13/04 A41D19/015 A43B13/04 A43B13/22 A43B7/12 B01D17/00 B01D17/02 B01D17/022 B01D17/025 B01D17/028 B01D17/035 B01D17/04 B01D17/06 B01D24/02 B01D39/02 B01D39/06 B01D39/08 B01D39/14 B01D39/16 B01D63/06 B01D65/08 B01D67/00 B01D69/02 B01D71/02 B01D71/10 B01D71/26 B01D71/32 B01D71/38 B01D71/48 B01D71/52 B01D71/56 B01D71/68 B03C1/00 B05D5/00 B05D7/24 B32B27/00 B32B27/18 C02F1/00 C02F1/24 C02F1/28 C02F1/40 C02F1/44 C02F1/52 C02F1/54 C07C227/06 C07C227/08 C07C227/16 C07C227/18 C07C229/06 C07C229/12 C07C229/20 C07C231/02 C07C231/12 C07C233/05 C07C233/08 C07C233/36 C07C233/37 C07C237/06 C07C237/10 C07C303/02 C07C303/22 C07C303/38 C07C303/40 C07C309/04 C07C309/07 C07C309/08 C07C309/13 C07C309/29 C07C311/03 C07C311/05 C07C311/10 C07C311/32 C07D207/10 C07D211/06 C07D211/38 C07D241/04 C07D265/30 C08K5/17 C08K5/19 C08K5/20 C08K5/3415 C08K5/3432 C08K5/3462 C08K5/357 C08K5/42 C08K5/435 C08L101/00 C09D1/02 C09D1/04 C09D101/00 C09D105/00 C09D129/06 C09D129/14 C09D133/00 C09D167/00 C09D201/00 C09D201/02 C09D201/04 C09D201/06 C09D201/08 C09D5/00 C09D5/16 C09D7/00 C09D7/12 C09D7/20 C09D7/40 C09D7/63 C09K3/00 C09K3/18 C09K3/32 D06M13/33 D06M13/408 D06M13/438 D06M13/46 E02B15/06 E02B15/10 E02B3/04 (Advanced/Invention);
C02F101/32 C02F103/32 C07C227/08 C07C227/18 C07C229/06 C07C231/12 C07C233/36 C07C233/37 C07C303/02 C07C303/22 C07C303/40 C07C309/04 C07C311/03 C07C311/10 C08K5/19 C08K5/20 C08K5/3415 C08K5/3462 C08K5/357 C08K5/42 C08K5/435 (Advanced/Non-invention)
CPC: C07C309/07 C07C309/08 C02F1/28 C02F1/52 C09D5/1625 B01D17/02 C07C229/12 C07C227/16 C07C231/02 C07C311/05 C07C303/38 C07C309/13 C07D211/38 C07D207/10 C07D241/04 C09D5/00 A43B13/223 A43B13/04 A43B7/12 A41D19/01558 A41D13/04 A41D2600/20 A41D2500/54 B05D5/00 B05D7/24 C09D129/14 C09D167/00 C08K5/19 C08K5/20 C08K5/3415 C08K5/3462 C08K5/357 C08K5/42 C08K5/435 C09D7/63 C09D7/20 Y02W10/37 C09D201/02 C09D201/025 C09D201/04 C09D201/06 C09D201/08 C07C311/10 D06M13/408 D06M13/438 D06M13/461 B32B27/18 B01D17/045 B01D17/10 B01D2239/0421 B01D2239/0613 B01D2239/0618 B01D2239/086 C07D211/06 C07D265/30 C02F2101/32 C02F2103/32 C07C237/06 C02F1/24 C02F1/40 C02F1/54 C07C227/06 C07C227/08 C07C227/18 C07C229/06 C07C231/12 C07C233/05 C07C233/08 C07C233/36 C07C233/37 C07C303/02 C07C303/22 C07C303/40 C07C309/04 C07C309/29 C07C311/03 C08K5/17 C08L101/00 C09D5/16 C09D7/40 C09D201/00 C09K3/00
US: 1/1 106/287.1 210/263 210/85 428/426

Family:

Publication number	Publication date	Application number	Application date
CN106573185 A	20170419	CN201580041432	20150729
CN106573185 A8	20170707	CN201580041432	20150729
CN106573185 B	20190910	CN201580041432	20150729
CN106574165 A	20170419	CN201580041396	20150729
CN106574165 B	20181019	CN201580041396	20150729
CN106574166 A	20170419	CN201580041417	20150730
CN106574166 B	20181002	CN201580041417	20150730
CN106659948 A	20170510	CN201580041456	20150730
CN106659948 B	20190816	CN201580041456	20150730
DE602015026533 D1	20190404	DE201560026533T	20150730
EP3175898 A1	20170607	EP20150827683	20150729
EP3175898 A4	20180502	EP20150827683	20150729
EP3175899 A1	20170607	EP20150827960	20150730
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JP2016017771 A1	20170427	JP20150556296T	20150730
JP2016064385 A2	20160428	JP20140238242	20141125
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US10399868 BB	20190903	US20150329393	20150729
WO16017686 A1	20160204	WO2015JP71489	20150729
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WO16017754 A1	20160204	WO2015JP71635	20150730
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Priority:

JP20140155553 20140730	JP20140155554 20140730	JP20140206782 20141007
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WO2015JP71680 20150730	WO2015JP71684 20150730	

Probable Assignee: MITSUBISHI MATERIALS CORP

Assignee(s): (std): MITSUBISHI MAT CORP ; MITSUBISHI MAT ELECT CHEM CO ; MITSUBISHI MAT ELECTRONIC CHEMICALS CO LTD ; MITSUBISHI MATERIALS CORP ; MITSUBIHI MAT ELECTRONIC CHEMICALS CO LTD

Assignee(s): MITSUBIHI MATERIALS ELECTRONIC CHEMICALS CO LTD ; MITSUBISHI MATERIALS ELECTRONIC CHEMICALS CO LTD ; MITSUBISHI MATERIALS ELECTRONIC CHEMICALS CO

Inventor(s): (std): UOTANI MASAKAZU ; KAMIYA TAKESHI ; HONDA TSUNETOSHI ; KOSHIYAMA HIROSHI ; SATO KOSEI ; FUJITA MASATO ; TAKANO DAISUKE ; IMAI HIROYUKI ; SATO YUKIO

Agent(s): GILLE HRABAL; LOCKE LORD LLP; ARMSTRONG IV JAMES E; DICEGLIE JR NICHOLAS J; SHIGA MASATAKE ET AL

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

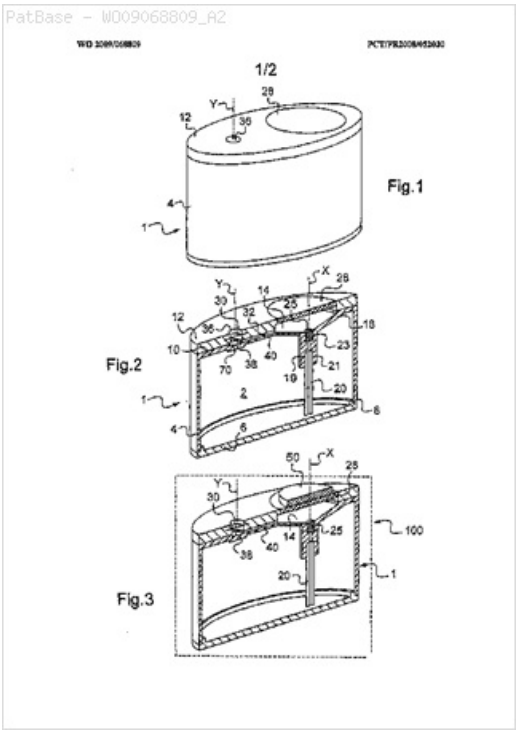
53) Family number: 43252175 (WO09068809A2)

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Title: CARTRIDGE CONTAINING A PRODUCT TO BE SPRAYED

Abstract: The present invention relates to a cartridge (1) for placing in an apparatus comprising an energizing member for diffusing at least one product, this cartridge comprising: a container containing the product to be diffused, a pressure chamber supplied by a capillary system connected to the container, a diaphragm (28) which at least partly defines the pressure chamber, and at least one product ejecting orifice for spraying the product when the diaphragm is coupled to an energizing member.

Classifications:
International (IPC 8-9): A45D1/28 A45D2/00 A45D34/02 A45D6/20 A61L9/14 B05B17/06 (Advanced/Invention);
A45D34/00 A61L9/14 B05B17/04 (Core/Invention)
CPC: A45D34/02 A45D2200/057 A61L9/14 B05B11/3084 B05B17/0638 B05B17/0684
European: A45D34/02 A61L9/14 B05B17/06B5 B05B17/06B7F2 K45D200/05H6 L05B11/30K4



Family:

Publication number	Publication date	Application number	Application date
FR2923365 A1	20090515	FR20070058949	20071112
FR2923365 B1	20100910	FR20070058949	20071112
FR2923366 A1	20090515	FR20080052342	20080408
FR2923366 B1	20111111	FR20080052342	20080408
WO09068809 A2	20090604	WO2008FR52030	20081112
WO09068809 A3	20091001	WO2008FR52030	20081112
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Priority:
FR20070058949 20071112 US20070990318P 20071127 FR20080052342 20080408

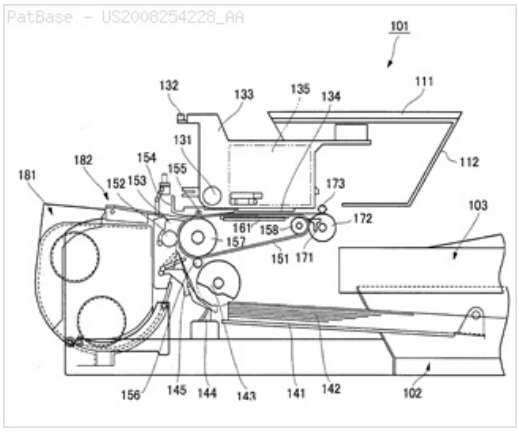
Probable Assignee: LOREAL SA
Assignee(s): (std): FONTAINE MICHEL ; LOREAL SA ; OREAL
Assignee(s): L OREAL ; L OREAL SOCIETE ANONYME
Inventor(s): (std): FONTAINE MICHEL
Inventor(s): MICHEL FONTAINE
Agent(s): CABINET NONY; NONY AND ASSOCIES; LERAY NOELLE
Designated states: AE AG AL AM AO AT AU AZ BA BB 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 LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

54) Family number: 41622182 (US2008254228A)

Title: RECORDING INK, INKJET RECORDING METHOD AND INKJET RECORDING APPARATUS

Abstract: There is provided a recording ink containing at least: water; a water-soluble organic solvent; a surfactant; and a carbon black having a hydrophilic group on a surface thereof, wherein the carbon black releases humic acid in an aqueous dispersion of the carbon black, which is recovered from the recording ink, a concentration of the humic acid released in the aqueous dispersion containing 20 percent by mass of the carbon black of is expressed with a maximum absorbance at a wavelength of 230 nm to 260 nm, and the recording ink has the maximum absorbance of 5.0 to 20.0 at the wavelength of 230 nm to 260 nm.

Classifications:
International (IPC 8-9): B05D5/06 B41J2/01 B41J2/135 B41J2/14 B41J2/16 B41M5/00 C09D11/00 C09D11/02 C09D11/10 C09D11/322 C09D11/324 C09D11/326 C09D11/328 C09D11/38 G01D11/00 (Advanced/Invention);
B05D5/06 B41J2/01 B41J2/135 B41M5/00 C09D11/00 C09D11/02 C09D11/10 G01D11/00 (Core/Invention)
International (IPC 1-7): B41J2/01 B41M5/00 C09D11/00
CPC: C09D11/324
European: B41M5/00F C09D11/324
US: 106/31.13 106/31.130S 347/100 347/100S 347/101 347/95 427/256 427/256S 427/466 427/466P 524/1 524/1S 524/424 524/424S



Family:

Publication number	Publication date	Application number	Application date
CN101370883 A	20090218	CN200780002842	20070912
CN101370883 B	20120509	CN200780002842	20070912
EP2061847 A1	20090527	EP20070807595	20070912
EP2061847 A4	20100616	EP20070807595	20070912
IN02042KN2008 A	20090116	IN2008KN02042	20080521
IN256135 B	20130510	IN2008KN02042	20080521
JP2008095088 A2	20080424	JP20070237095	20070912
JP5293990 B2	20130918	JP20070237095	20070912
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US8029122 BB	20111004	US20070094203	20070912
VN10267 A1	20120625	VN20080001286	20070912
WO08032864 A1	20080320	WO2007JP68227	20070912

Priority:

JP20060251589 20060915 JP20070237095 20070912 WO2007JP68227 20070912

Probable Assignee: RICOH CO LTD

Assignee(s): (std): BANNAI AKIKO ; GOTOH AKIHIKO ; INOUE TOMOHIRO ; KOJIMA MARIKO ; NAGAI KIYOFUMI ; RICOH KK ; RICOH CO LTD

Assignee(s): RICOH CO ; RICOH COMPANY LTD

Inventor(s): (std): NAGAI KIYOFUMI ; BANNAI AKIKO ; KOJIMA MARIKO ; GOTOH AKIHIKO ; INOUE TOMOHIRO ; SAKAUCHI AKIKO ; GOTO AKIHIKO ; AKIHIKO GOTO ; KIYOFUMI NAGAI ; TOMOHIRO INOUE ; AKIKO SAKAUCHI ; MARIKO KOJIMA

Inventor(s): BANNI AKIKO

Agent(s): BARZ PETER; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT LLP; HIROTA KOICHI

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 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 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

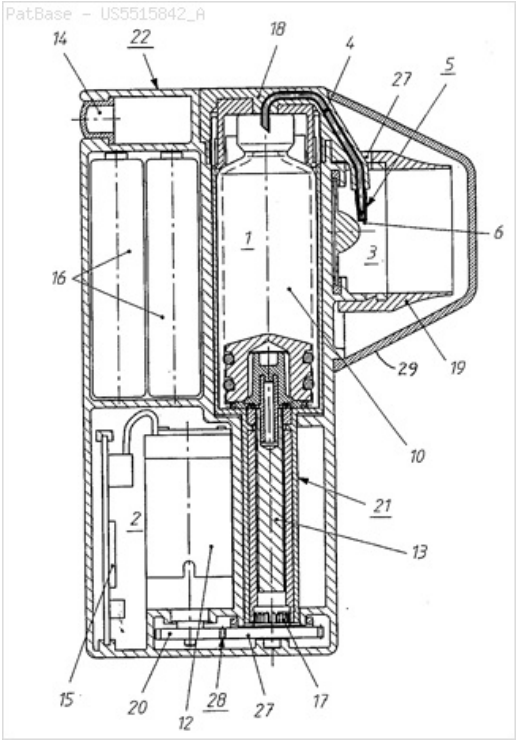
55) Family number: 9610189 (US5515842A)

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Title: Inhalation device

Abstract: A medical inhaler generates an aerosol of pharmaceutically effective medication to be absorbed by the respiratory tract of a patient includes a reservoir (1) of liquid medication, a conveyor (2) to expel the liquid from the reservoir, an atomizing vibrator (3) and a feed line (4) to conduct the liquid between the reservoir and the vibrator. The conveyor and the vibrator can be controlled by a process controller (15) which can include a microprocessor. Discharge of liquid medicine is both coordinated with the vibrator and accurately dosable and achieves optimal atomization of the medicine.

Classifications:
International (IPC 8-9): A61M15/00 B05B17/06 (Advanced/Invention);
A61F2/38 (Advanced/Non-invention);
A61M15/00 B05B17/04 (Core/Invention);
A61F2/38 (Core/Non-invention)
International (IPC 1-7): A61M11/00 A61M15/00 B05B17/06
CPC: A61M15/0085 B05B17/0607
European: A61M15/00F B05B17/06B
US: 128/200.14 128/200.18



Family:

Publication number	Publication date	Application number	Application date
CH686872 A	19960731	CH19930002369	19930809
DE59409409 D1	20000803	DE19945009409	19940805
EP0642802 A2	19950315	EP19940112250	19940805
EP0642802 A3	19960313	EP19940112250	19940805
EP0642802 B1	20000628	EP19940112250	19940805
US5515842 A	19960514	US19940287158	19940808

Priority:

CH19930002369 19930809

Probable Assignee: SIEMENS AG

Assignee(s): (std)**:** DISETRONIC AG ; SIEMENS AG

Assignee(s): SIEMENS AKTIENGESELLSCHAFT

Inventor(s): (std)**:** MICHEL PETER ; LINDEN DIPL ING VAN D ; RUETTEL DIPL ING FH ; HAACK DIPL PHYS ; VAN DER LINDEN DIPL ING ; VAN DER LINDEN KLAUS DIPL ING ; HAACK OLAF DIPL PHYS ; RUETTEL MARTIN DIPL ING ; LINDEN KLAUS DIPL ING VAN D ; MICHEL PETER DR ; GABRIEL RENE ; RAMSEYER MARKUS

Inventor(s): RUETTEL DIPL ING ; RUETTEL MARTIN DIPL ING FH

Designated states: DE FR GB IT NL

56) Family number: 50499191 (US2012062840A)

© PatBase

Title: METHOD AND SYSTEM FOR PERFORMING REMOTE TREATMENT AND MONITORING

Abstract: The disclosure relates to medical databases, remote monitoring, diagnosis and treatment systems and methods. In one particular embodiment, a system for remote monitoring, diagnosis, or treatment of eye conditions, disorders and diseases is provided. This method generally includes administering a stream of droplets to the eye of a subject from an ejector device, and storing data related to the administration in a memory of the ejector device. The data may then be monitored and analyzed.

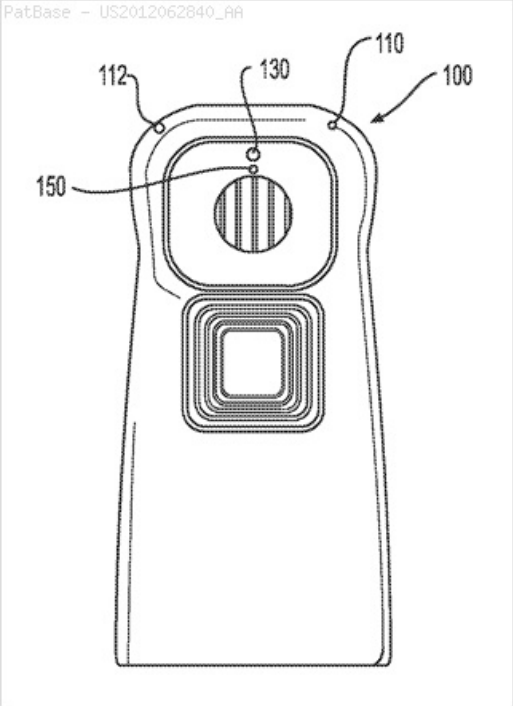
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A61M15/02 G16H10/60 G16H15/00 (Advanced/Non-invention);
A61F9/00 A61K9/00 A61M35/00 (Core/Invention);
A61F (Subclass/Invention)

International (IPC 1-7): A61F9/00

CPC: A61B3/117 A61B3/113 A61K31/717 A61K31/4402 A61K31/047 A61K31/4164 A61K31/4535 A61K31/695 A61K33/30 A61K31/542 A61K31/165 A61K31/335 A61K31/216 A61K31/4709 A61K31/245 A61K31/7036 A61K31/4409 A61K31/498 A61K38/13 A61K31/496 A61K31/56 A61K31/4545 A61K31/55 A61K31/382 A61K31/7052

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European: A61F9/00B G06F19/34A G06F19/34C S06F19/32C S06F19/34L S06F19/34P
US: 1/1 351/205 351/205S 351/206 351/206P 351/210 351/246 351/246S 424/133.1 424/133.100S 424/400 424/400P 424/641 424/94.1 424/94.100S 514/179 514/180 514/180S 514/20.5 514/20.8 514/20.800S 514/217.07 514/226.5 514/226.500S 514/230.2 514/236.2 514/236.200S 514/249 514/253.08 514/253.080S 514/29 514/300 514/300S 514/318 514/318S 514/324 514/324S 514/357 514/357S 514/401 514/401S 514/41 514/41S 514/432 514/450 514/530 514/535 514/535S 514/567 514/567S 514/57 514/57S 514/619 514/622 514/63 514/738 514/8.1 514/8.100S 600/476 604/290 604/290S 604/294 604/295 604/296 604/298 604/298P 604/521



Family:

Publication number	Publication date	Application number	Application date
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EP2485691 A1	20120815	EP20110738112	20110715
EP2593055 A1	20130522	EP20110738113	20110715
EP2593056 A1	20130522	EP20110738114	20110715
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IL224211 A0	20130324	IL20110224211	20110715
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IL224248 A0	20130324	IL20110224248	20110715
IL224248 A1	20180920	IL20110224248	20110715
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Priority:

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Probable Assignee: EYENOVIA INC

Assignee(s): (std): ARTHUR H TEW ; BALLOU BERNARD L JR ; CORINTHIAN OPHTHALMIC INC ; BALLOU JR BERNARD L ; BROWN JOSHUA RICHARD ; IANCHULEV TSONTCHO ; HUNTER CHARLES ERIC ; ELLIOTT TROY ; HEBRANK JOHN H ; LINDNER THOMAS J ; FIERSON WALTER M ; LEATH JAMES THORNHILL ; FAULKS NATHAN R ; JOHNSON BRADLEY G ; JURGEN KLAUS VOLLRATH ; JOSHUA RICHARD BROWN ; JAMES THORNHILL LEATH ; J SID CLEMENTS ; JOHN H HEBRANK ; PACKER MARK N ; MUMPER RUSSELL JOHN ; VOLLRATH JURGEN KLAUS ; SPARKS KELLY L ; TEW ARTHUR H ; RUSSELL PHILLIP E ; CHARLES ERIC HUNTER ; BERNARD L BALLUO JR ; BRADLEY G JOHNSON ; INACHULEV TSONTCHO ; EYENOVIA INC ; SPARKS KELLY C ; PACKER MARK ; NATHAN R FAULKS ; PHILLIP E RUSSELL ; TSONTCHO IANCHULEV ; MARK N PACKER ; TROY ELLIOTT ; WALTER M FIERSON ; THOMAS J LINDNER ; CLEMENTS J SID

Assignee(s): BALLUO BERNARD LJR ; RUSSELL JOHN MUMPER ; CORINTHIAN OPHTHALMIC INC8601 SIX FORKS RD.SUITE 400RALEIGHNC27615US ; EYENOVIA INC400 - 2711 CENTERVILLE ROADWILMINGTONDE19808US ; ELLIOT TROY ; BERNARD L BALLOU JR ; MACK JOHN ; MARIO 2002 GRANDCHILDREN S TRUST ; MARK PACKER ; MIDDLEMARCH LLC ; PRINCETON OPHTHALMIC LLC ; RK VENTURES GROUP II LLC ; SAMBERG ARTHUR J ; STERN THOMAS ; WILLE AG ; ESHELMAN FRED N ; CLEMENTS J ; BALLOU BERNARD L ; ACADIA WOODS PARTNERS LLC ; AMP FAMILY PARTNERSHIP III LP

Inventor(s): (std): LEATH JAMES THORNHILL ; LINDNER THOMAS J ; JOHNSON BRADLEY G ; FAULKS NATHAN R ; RUSSELL PHILLIP E ; FIERSON WALTER M ; CLEMENTS J SID ; TEW ARTHUR H ; SPARKS KELLY C ; PACKER MARK ; INACHULEV TSONTCHO ; MARK PACKER ; BALLOU BERNARD L ; PACKER MARK N ; IANCHULEV TSONTCHO ; BALLOU BERNARD L JR ; MUMPER RUSSELL JOHN ; HEBRANK JOHN H ; HUNTER CHARLES ERIC ; ELLIOTT TROY ; BROWN JOSHUA RICHARD ; VOLLRATH JURGEN KLAUS ; BALLOU JR BERNARD L ; SPARKS KELLY L ; MUMPER RUSSEL JOHN ; BERNARD L BALLOU JR ; TSONTCHO IANCHULEV ; RUSSEL JOHN MUMPER ; RUSSEL PHILLIP E ; JOHN H HEBRANK ; JURGEN KLAUS VOLLRATH ; MARK N PACKER ; CHARLES ERIC HUNTER ; JOSHUA RICHARD BROWN ; J SID CLEMENTS ; ARTHUR H TEW ; BRADLEY G JOHNSON ; WALTER M FIERSON ; JAMES THORNHILL LEATH ; THOMAS J LINDNER ; NATHAN R FAULKS ; TROY ELLIOTT ; PHILLIP E RUSSELL ; BERNARD L BALLUO JR ; KELLY C SPARKES ; RUSSELL JOHN MUMPER ; RUSSELL PHILIP E

Inventor(s): BALLOU JR ; JR BERNARD L BALLOU ; KELLY L SPARKS ; BERNARD L JR BALLOU ; PHILLIP E RUSSEL ; BALLOU BERNARD LJR ; BALLUO BERNARD LJR ; ELLIOT TROY ; CLEMENTS J ; HEBRANJ JOHN H ; KELLY C SPARKS ; BALLOU BERNARD ; MUMPER RUSSELL JOHNUS ; BALLOU BERNARD L JRUS ; PACKER MARKUS ; INACHULEV TSONTCHOUS ; SPARKS KELLY CUS ; BROWN JOSHUA RICHARDUS ; HEBRANK JOHN HUS ; VOLLRATH JURGEN KLAUSUS ; HUNTER CHARLES ERICUS ; ELLIOTT TROYUS ; FIERSON WALTER MUS ; JOHNSON BRADLEY GUS ; TEW ARTHUR HUS ; IANCHULEV TSONTCHOUS ; RUSSELL PHILLIP EUS ; FAULKS NATHAN RUS ; CLEMENTS J SIDUS ; LEATH JAMES THORNHILLUS ; LINDNER THOMAS JUS

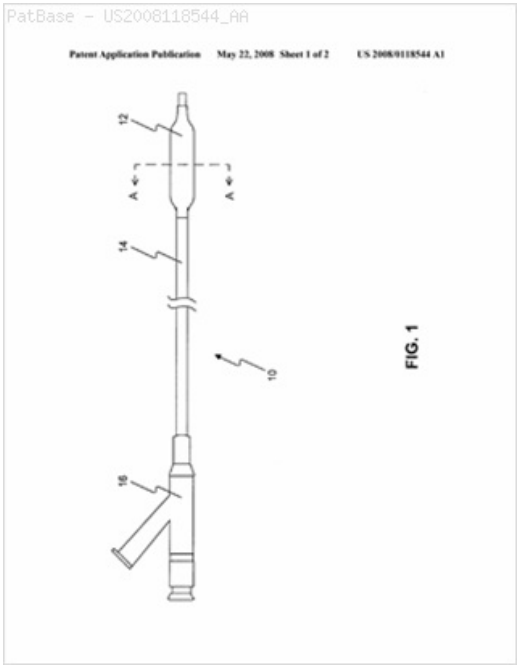
Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR; ESTUDIO FEDERICO VILLASECA Y CIA; UEXKUELL AND STOLBERG; DEACONS; CLT PATENT AND TRADEMARK HK LTD; PROFESSIONAL PATENT SOLUTIONS; KOGA TETSUJI; AOKI ATSUSHI; FUKUMOTO TSUMORU; ISHIDA TAKASHI; SHIMADA TETSURO; POLSINELLI PC; MARSH DAVID R 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

57) Family number: 41821196 (US2008118544A)

Title: DRUG RELEASING COATINGS FOR MEDICAL DEVICES

Abstract: The invention relates to a medical device for delivering a therapeutic agent to a tissue. The medical device has a layer overlying the exterior surface of the medical device. The layer contains a therapeutic agent and an additive. The additive has a hydrophilic part and a hydrophobic part and the therapeutic agent is not enclosed in micelles or encapsulated in particles or controlled release carriers.



Classifications:

International (IPC 8-9): A61B17/22 A61B17/3207 A61B17/3209 A61B18/20 A61B18/24 A61F13/00 A61F2/00 A61F2/01 A61F2/02 A61F2/07 A61F2/24 A61F2/82 A61F2/844 A61F2/958 A61K101/02 A61K31/337 A61K31/352 A61K31/4353 A61K31/436 A61K31/4433 A61K31/59 A61K45/06 A61K47/02 A61K47/08 A61K47/10 A61K47/12 A61K47/14 A61K47/18 A61K47/20 A61K47/22 A61K47/24 A61K47/26 A61K47/34 A61K47/42 A61K47/44 A61K49/04 A61K51/02 A61K9/00 A61K9/08 A61K9/12 A61L15/44 A61L27/54 A61L29/00 A61L29/08 A61L29/10 A61L29/12 A61L29/14 A61L29/16 A61L29/18 A61L31/00 A61L31/08 A61L31/10 A61L31/12 A61L31/14 A61L31/16 A61L31/18 A61M11/00 A61M15/00 A61M16/04 A61M25/00 A61M25/09 A61M25/10 A61M29/00 A61M29/02 A61M31/00 A61M37/00 A61M5/00 A61P11/00 A61P11/06 A61P29/00 A61P3/02 A61P35/00 A61P37/06 A61P7/02 A61P9/00 B05B13/04 B05C1/06 B05C5/00 B05D1/00 B05D1/02 B05D1/18 B05D1/26 B05D3/02 B05D3/04 B05D3/10 B05D5/00 B05D7/00 (Advanced/Invention);
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A61F2/02 A61F2/82 A61K31/337 A61K31/4353 A61K31/4427 A61K45/00 A61K47/44 A61K51/02 A61K9/12 A61L29/00 A61L31/00 A61L31/08 A61L31/14 A61M11/00 A61M15/00 A61M25/00 A61M25/10 A61P11/00 B05C5/00 B05D1/00 B05D1/26 B05D7/00 (Core/Invention);
A61P11/00 (Core/Non-invention)

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US: 1/1 118/261 118/307 118/320 118/665 128/200.23 128/200.230S 128/203.15 128/203.150P 128/203.150S 424/1.29 424/1.290S 424/400 424/400S 424/422 424/422S 424/423 424/423P 424/423S 424/43 424/434 424/434P 424/43S 424/448 424/448S 424/45 424/45S 424/9.454 427/2.1 427/2.100S 427/2.25 427/2.250P 427/2.3 427/2.300S 427/2.31 427/2.310S 514/167 514/167S 514/279 514/279S 514/291 514/291S 514/34 514/449 514/449S 514/454 600/431 600/433 600/434 600/435 604/103.01 604/103.02 604/103.020P 604/103.020S 604/103.1 604/103.100S 604/21 604/21P 604/22 604/22S 604/500 604/500S 604/509 604/509P 604/509S 604/514 604/523 604/523S 604/93.01 604/99.04 604/99.040P 606/2 606/2S 623/1.34 623/1.340S 623/1.42 623/1.420S 623/1.46 623/1.460S

Family:

Publication number	Publication date	Application number	Application date
CN101610798 A	20091223	CN200880001141	20080516
CN101610798 B	20130717	CN200880001141	20080516
CY1115664 T1	20170125	CY20141100742T	20140915
DE202008018336 U1	20130314	DE200820018336U	20080516
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DK2073860 T3	20140825	DK20080767783T	20080516
EP2066321 A2	20090610	EP20070867504	20071119
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EP2073860 B1	20140709	EP20080767783	20080516
EP2086602 A2	20090812	EP20070862098	20071119
EP2092941 A2	20090826	EP20090156858	20071119
EP2092941 A3	20091118	EP20090156858	20071119
EP2092942 A1	20090826	EP20090160605	20071119
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EP2322235 A1	20110518	EP20100189393	20071119
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EP2500046 A2	20120919	EP20110176688	20080516
EP2500046 A3	20130123	EP20110176688	20080516
EP2500047 A2	20120919	EP20110176690	20080516
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ES2504541 T3	20141008	ES20080767783T	20080516
HR20140916 T1	20141205	HR20140000916	20140924
JP2010509991 T2	20100402	JP20090537230T	20071119

JP2010540159 T2	20101224	JP20100527929T	20080516
JP2014131748 A2	20140717	JP20140018428	20140203
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WO08063576 A3	20090205	WO2007US24108	20071119
WO08063581 A2	20080529	WO2007US24116	20071119
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WO09051616 A1	20090423	WO2008US06417	20080520
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Priority:

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Probable Assignee: LUTONIX INC

Assignee(s): (std)**:** LUTONIX INC ; BARRY CHRISTOPHER M ; WANG LIXIAO ; MALINOFF HARRISON ; NAISBITT SCOTT ; WAHR DENNIS W ; WANG JEFFREY ; NAISBITT SCOTT R

Assignee(s): LUTONIX ; LUTONIX INC MAPLE GROVE

Inventor(s): (std)**:** WANG LIXIAO ; LIXIAO WANG ; WAHR DENNIS W ; MALINOFF HARRISON ; BARRY CHRISTOPHER M ; NAISBITT SCOTT R ; WANG JEFFREY ; NAISBITT SCOTT ; WANG LIXIANO

Inventor(s): LIXIANO WANG ; WANG LIXIANO MEDINA

Agent(s): HOFFMANN EITLE PATENT U RECHTSANWAELTE PARTMBB; SIEGERT GEORG; HOFFMANN EITLE; WIEDEMANN PETER; FUSTER GUSTAVO NICOLAS; FUKAZAWA NORIHIRO; TOMITA HIROYUKI; HOSHINO OSAMU; ONO SHINJIRO; TAGAMI YASUKO; KOBAYASHI YASUSHI; YAMAMOTO OSAMU; TAKEUCHI SHIGEO; MIYAMAE TORU; NAKANISHI MOTOHARU; FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER LLP; DINSMORE AND SHOHL LLP; DINSMORE AND SHOHL; GARRETT ARTHUR S

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

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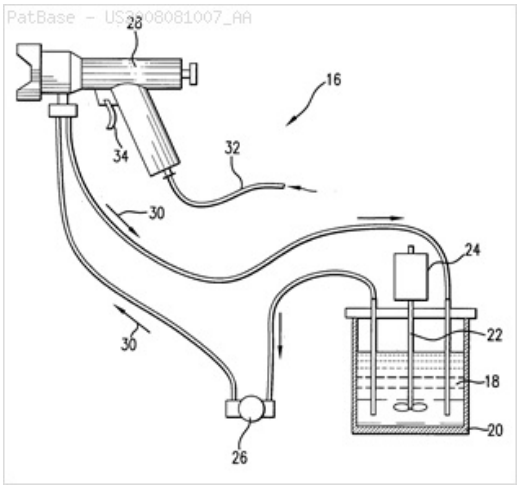
Title: SINTER BONDED POROUS METALLIC COATINGS

Abstract: A method for forming a porous coating with nanosize pores on a substrate includes the steps of (a) forming a suspension of sinterable particles in a carrier fluid; (b) maintaining the suspension by agitating the carrier fluid; (c) applying a first coating of the suspension to the substrate; and (d) sintering the sinterable particles to the substrate. A thin layer of this nanoporous coating is deposited onto a substrate having micropores. The substrate provides strength and structural support while the properties of the nano powder layer controls flow and filtration aspects of the device. This composite has sufficient strength for handling and use in industrial processes. Since the nano powder layer is thin, the pressure drop across the layer is substantially less than conventional thicker nano powder structures.

Classifications:

International (IPC 8-9): B01D39/02 B01D39/20 B01D53/34 B01D53/86 B01D61/14 B01D69/04 B01D69/06 B01D69/10 B01D69/12 B01D71/02 B01J2/00 B01J2/04 B01J2/18 B01J23/42 B01J23/44 B01J35/04 B01J37/34 B05D1/00 B05D1/02 B05D1/18 B05D3/02 B05D5/00 B22F1/00 B22F3/10 B22F3/11 B22F3/16 B22F3/24 B22F5/00 B22F5/10 B22F7/00 B22F7/02 B22F7/04 B22F7/08 B32B1/08 B32B3/00 B32B3/26 B32B5/18 B32B9/00 B82Y30/00 C04B41/85 C04B41/87 C04B41/88 C22C1/02 C22C1/04 C22C14/00 C22C19/05 C22C33/02 C22C38/00 C22C5/04 C23C18/02 C23C18/06 C23C24/00 C23C24/04 C23C24/08 H01M4/02 H01M4/86 H01M4/88 H01M4/92 H01M8/00 H01M8/02 H01M8/06 (Advanced/Invention);

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Family:

Publication number	Publication date	Application number	Application date
DE602007035260 D1	20140410	DE200760035260T	20070830
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Probable Assignee: MOTT CORP

Assignee(s): (std): MOTT CORP ; MOTT CORP A CORP OF STATE ; ROMANO ALFRED M ; WHITE WAYNE F ; STEELE JAMES K ; RUBOW KENNETH L

Assignee(s): WEBSTER BANK NATIONAL ASSOCIATION ; MOTT CORP FARMINGTON ; MOTT CORPORATION ; MOTT A OF STATE OF CONNECTICUT CORP

Inventor(s): (std): WHITE WAYNE F ; RUBOW KENNETH L ; ROMANO ALFRED M ; STEELE JAMES K ; ALFRED M ROMANO ; WAYNE F WHITE ; KENNETH L RUBOW

Inventor(s): ROMANO ALFRED M TERRYVILLE ; RUBOW KENNETH L AVON ; STEELE JAMES K ROCKFALL ; ROMANO ALFRED M HARTLAND ; WHITE WAYNE F GRANBY

Agent(s): KLUNKER SCHMITT NILSON HIRSCH; KSNH PATENTANWAELTE KLUNKER SCHMITT NILSON HIRSCH; KLUNKER HANS FRIEDRICH; ASAMURA PATENT OFFICE PC; IKEDA YUKIHIRO; ASAMURA KIYOSHI; ASAMURA HAJIME; WIGGIN AND DANA LLP ATTENTION PATENT DOCKETING; WIGGINS AND DANA LLP; GREGORY S; ROSENBLATT GREGORY S

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

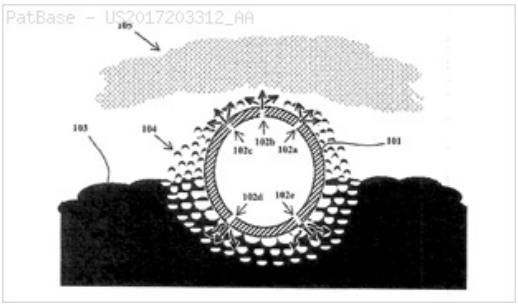
59) Family number: 58693219 (US2017203312A)

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Title: LIQUID ATOMIZATION METHOD AND DEVICE

Abstract: The invention provides a device and a method for liquid atomization, employing a hollow body with a closed surface perforated with a plurality of point orifices and connected to a compressed gas. The body is submerged in a liquid to be atomized, with some orifices immersed in the liquid and others emerged from it. The system can be scaled-up according to the need.

Classifications:
International (IPC 8-9): B05B B05B1/00 B05B1/20 B05B17/04 B05B7/00 B05B7/02 B05B7/04 (Advanced/Invention);
B05B (Subclass/Invention)
CPC: B05B1/005 B05B1/207 B05B7/0012 B05B7/02 B05B17/04 B05B7/0416
US: 1/1 239/8



Family:

Publication number	Publication date	Application number	Application date
EP3204169 A1	20170816	EP20150848995	20150827
EP3204169 A4	20180530	EP20150848995	20150827
HK1242652 A1	20180629	HK20180102389	20180214
IL235083 A0	20150226	IL20140235083	20141007
US2017203312 AA	20170720	US20150324902	20150827
US10384218 BB	20190820	US20150324902	20150827
WO16055993 A1	20160414	WO2015IL50857	20150827

Priority:

IL20140235083 20141007 WO2015IL50857 20150827

Probable Assignee: SAMI SHAMOON COLLEGE OF ENGINEERING

Assignee(s): (std): ISAAC ETLIN ; IZHAK LADIZHENSKY ; MAKSYM MEZHERICHER ; SAMI SHAMOON COLLEGE OF ENG ; SAMI SHAMOON COLLEGE OF ENGINEERING R A ; SAMI SHAMOON COLLEGE OF ENG R A

Assignee(s): SAMI SHAMOON COLLEGE OF ENGINEERING

Inventor(s): (std): LADIZHENSKY IZHAK ; ETLIN ISAAC ; MEZHERICHER MAKSYM

Inventor(s): ISAAC ETLIN ; MAKSYM MEZHERICHER ; IZHAK LADIZHENSKY

Agent(s): BONVICINI DAVIDE; CHAN TANG AND KWOK; BONDI MICHAEL A; MOSS AND BARNETT; GUTTMAN THOMAS ET AL

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

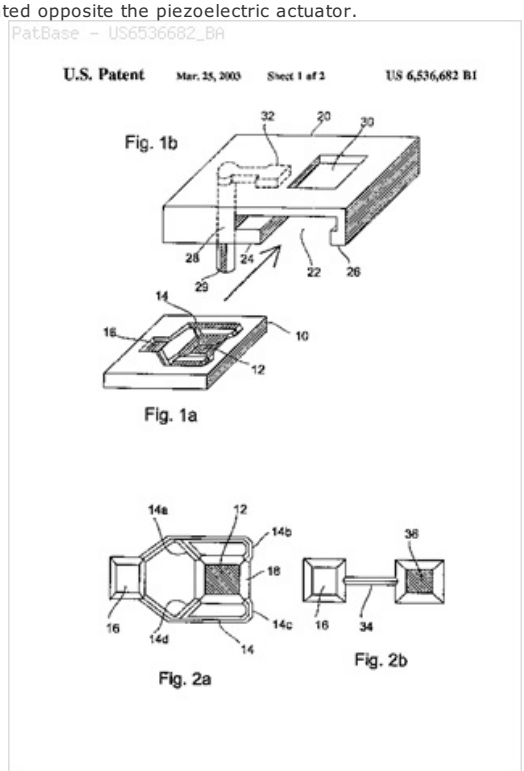
60) Family number: 12500227 (US6536682B)

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Title: Actuator component for a microspray and its production process

Abstract: An actuator component for a piezoelectrically-driven microatomizer comprises a diaphragm formed in a semiconductor substrate, a piezoelectric actuator which is arranged on a surface of the diaphragm and by means of which the diaphragm can be caused to vibrate, and a passage formed in the semiconductor substrate and used for supplying a liquid to be atomized from an inlet end to the diaphragm surface located opposite the piezoelectric actuator.

Classifications:
International (IPC 8-9): B05B17/06 B06B1/06 B81B3/00 H01L41/09 H01L41/187 H01L41/22 (Advanced/Invention);
B05B17/04 B06B1/06 B81B3/00 H01L41/09 H01L41/18 H01L41/22 (Core/Invention)
International (IPC 1-7): B05B17/06 B06B1/06 B41J2/45 B81B3/00 F04B43/4 H01L41/09 H01L41/187 H01L41/22
CPC: B05B17/0607
European: B05B17/06B
US: 239/102.1 239/102.2 239/4 239/491 239/494 239/596



Family:

Publication number	Publication date	Application number	Application date
DE19938055 A1	20010315	DE19991038055	19990812
DE50001149 D1	20030227	DE20005001149	20000810
EP1200198 A1	20020502	EP20000949481	20000810
EP1200198 B1	20030122	EP20000949481	20000810
JP2003507168 T2	20030225	JP20010516676T	20000810
JP3598095 B2	20041208	JP20010516676T	20000810
US6536682 BA	20030325	US20020049195	20020617
WO0112340 A1	20010222	WO2000EP07798	20000810

Priority:

DE19991038055 19990812 DE20005001149 20000810 WO2000EP07798 20000810

Probable Assignee: FRAUNHOFER GES

Assignee(s): (std)**:** FRAUNHOFER GES FORSCHUNG ; SCHNUPP RALF ; THOMAS JOCHEN

Assignee(s): FRAUNHOFER GES ; FRAUNHOFER GES ZUR FOERDERUNG DER ANGEWANDTEN FORS ; FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWAN ; FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E V

Inventor(s): (std)**:** SCHNUPP RALF ; THOMAS JOCHEN

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

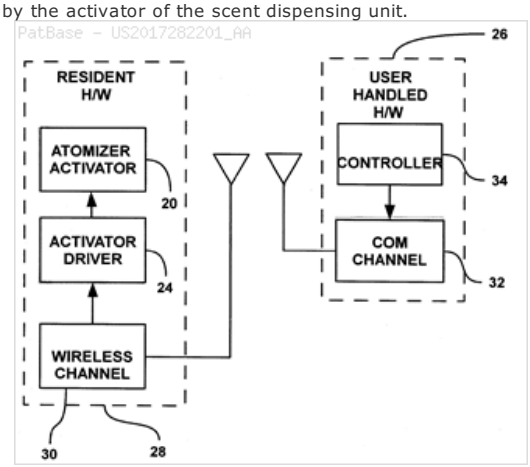
61) Family number: 63122229 (US2017282201A)

© PatBase

Title: SCENT DISPENSING APPARATUS AND METHOD FOR THE CONTROL THEREOF

Abstract: An apparatus for dispensing compounds bearing scent in which one or more scent dispensing units contain each one scent bearing compound and is activated mechanically by an electromechanical activator. A user handled device contains a controller, a memory and a communications device. Resident hardware includes a resident channel for communicating with the user handled device and a controlled driver for controlling the scent dispenser mechanically. A wireless peer to peer communications system carries out the communications between the user device and the resident hardware. The user can input parameter for controlling the dispensing unit through a user device interface. A controller in the resident hardware implements a dispenser activation scheme, mechanically expressed by the activator of the scent dispensing unit.

Classifications:
International (IPC 8-9)**:** A61L9/12 B05B B05B12/02 B05B17/00 B05B17/04 B05B17/06 H04L29/00 H04L29/08 (Advanced/Invention); B60R16/08 (Advanced/Non-invention); B05B H04L (Subclass/Invention)
CPC: A61L9/14 A61L2209/111 A61L2209/132 A61L9/12 H04L67/04 H04L67/12 H04L29/00 H04L29/08 B05B12/02 B05B17/0607 B05B17/0669 B60R16/08 H04L67/1061 H04L67/125
US: 1/1 239/4



Family:

Publication number	Publication date	Application number	Application date
DE602016019473 D1	20190919	DE201660019473T	20160128
EP3254428 A1	20171213	EP20160746224	20160128
EP3254428 A4	20180822	EP20160746224	20160128
EP3254428 B1	20190828	EP20160746224	20160128
IL253315 A0	20170831	IL20160253315	20160128
IL253315 A1	20171130	IL20160253315	20160128
US2017282201 AA	20171005	US20160500574	20160128
US2018193861 AA	20180712	US20180917689	20180311
US9943870 BB	20180417	US20160500574	20160128
US10118190 BB	20181106	US20180917689	20180311
WO16125141 A1	20160811	WO2016IL50093	20160128

Priority:

US20150111754P 20150204 EP20160746224 20160128 US20160500574 20160128
WO2016IL50093 20160128 US20170500574 20170131 US20180917689 20180311

Probable Assignee: MOSHE ZACH

Assignee(s): (std)**:** BEN DAVID YOAV ; MOSHE ZACH ; YOAV BEN DAVID ; ZACH MOSHE

Inventor(s): (std)**:** MOSHE ZACH ; YOAV BEN DAVID ; ZACH MOSHE ; BEN DAVID YOAV

Agent(s): BECKER KURIG STRAUS PATENTANWAELTE PARTNERSCHAFT MBB; HARRISON IP LTD; DR EREZ GUR; LAW OFFICE OF JOSEPH L FELBER; TSIVION YORAM

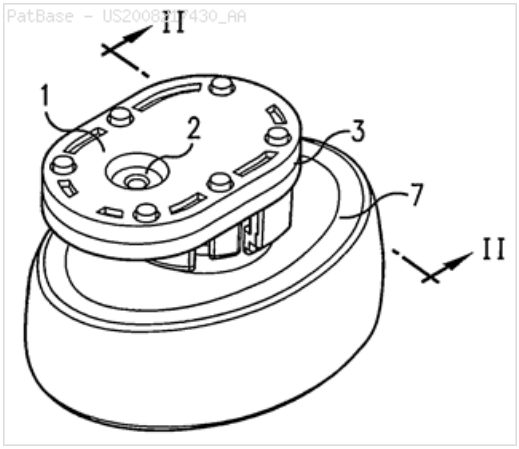
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW 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

62) Family number: 42071231 (US2008217430A)

Title: VOLATILE LIQUID DROPLET DISPENSER DEVICE

Abstract: A volatile liquid droplet dispenser device includes: a first substrate (1) having a space (2 c) for containing a liquid substance, and having liquid outlet means (2 a) for ejecting the liquid substance; a second substrate (3) having a liquid inlet means (3 i) for allowing the liquid substance to enter said device; an actuating element (2 b, 8, 10) arranged to actuate the liquid substance so as to exit the device as a liquid droplet spray, wherein the liquid outlet means (2 a) of the first substrate comprises a perforated nozzle membrane (2 a) having a plurality of outlet nozzles, and wherein the first substrate (1) contains at least one fluidic capillary priming channel (1 a, 1 b, 1 c) arranged to receive liquid substance from the space (2 c) so as to fill the channel such that the liquid substance is in close proximity to the outlet nozzles for priming the liquid substance for ejection through the nozzle membrane.

Classifications:
International (IPC 8-9): A61M15/00 B05B1/08 B05B17/00 B05B17/04 B05B17/06 F04B43/04 (Advanced/Invention); A61M15/00 B05B1/02 B05B17/04 F04B43/02 (Core/Invention)
CPC: B05B17/0646 B05B17/0684
European: B05B17/06B5F B05B17/06B7F2 L05B17/06B99B30B
US: 239/102.1 239/102.100S 239/102.2 239/102.200P



Family:

Publication number	Publication date	Application number	Application date
DE602007026486 D1	20130103	DE200760026486T	20070201
EP1952896 A1	20080806	EP20070002190	20070201
EP1952896 B1	20121107	EP20070002190	20070201
JP2008188590 A2	20080821	JP20080021069	20080131
JP5314899 B2	20131016	JP20080021069	20080131
US2008217430 AA	20080911	US20080024310	20080201
US8870090 BB	20141028	US20080024310	20080201

Priority:
EP20070002190 20070201

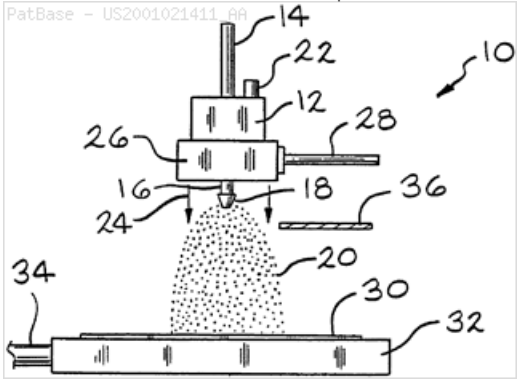
Probable Assignee: APTAR FRANCE SAS
Assignee(s): (std): APTAR FRANCE SAS ; EP SYSTEMS SA ; FERIANI AMIR ; HESS JOSEPH ; MICROFLOW ENG SA
Assignee(s): MICROFLOW ENGINEERING SA
Inventor(s): (std): FERIANI AMIR ; HESS JOSEPH
Agent(s): TBK; BALSTERS ROBERT ET AL; BALSTERS ROBERT; GRIFFIN AND SZIPL PC
Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK NL PL PT RO RS SE SI SK TR

63) Family number: 30037235 (US2001021411A)

Title: METHOD FOR PROVIDING A ONE STEP ULTRASONICALLY COATED SUBSTRATE

Abstract: A deposition process for coating a substrate with an ultrasonically generated aerosol spray of a pseudocapacitive material, or a precursor thereof, contacted to a substrate heated to a temperature to instantaneously solidify the pseudocapacitive material or convert the precursor to a solidified pseudocapacitive metal compound, is described. The ultrasonic aerosol droplets are much smaller in size than those produced by conventional processes and the heated substrate minimizes the possibility of contamination, thereby providing the present coating having an increased surface area. When the coated substrate is an electrode in a capacitor, a greater surface area results in an increased electrode capacitance.

Classifications:
International (IPC 8-9): B05B17/06 B05D7/00 B05D7/14 B32B15/04 B32B9/00 C23C22/76 H01G4/18 H01G9/04 (Advanced/Invention); B05D7/00 B05D7/14 B32B15/04 B32B9/00 (Advanced/Non-invention); H01G9/04 (Core/Invention)
International (IPC 1-7): B05B17/06 B05D1/02 B05D3/02 B05D5/12 B05D7/00 B05D7/14 B06B1/00 B32B15/04 B32B7/00 B32B9/00 C23C22/76 C25F7/00 H01B1/14 H01G13/00 H01G4/18 H01G9/00 H01G9/04 H01G9/058
CPC: Y10T428/31678 H01G9/04
European: H01G9/04
US: 204/290.01 204/290.010P 204/290.14 204/290.140S 216/6 216/6S 361/502 361/508 361/516 361/528 361/532 427/299 427/309 427/309S 427/314 427/314S 427/318 427/318S 427/327 427/327S 427/421 427/427 427/427S 427/534 427/534S 427/600 427/600P 427/79 427/79P 427/79S 427/96.7 427/96.700S 428/457 428/469 428/472 428/697 428/699 428/701 428/702



Family:

Publication number	Publication date	Application number	Application date
AU199863819 A1	19981105	AU19980063819	19980429

AU730206 B2	20010301	AU19980063819	19980429
DE69829241 D1	20050414	DE19986029241	19980501
EP0877401 A1	19981111	EP19980303434	19980501
EP0877401 B1	20050309	EP19980303434	19980501
JP10312931 A2	19981124	JP19980129513	19980422
US2001021411 AA	20010913	US20010808582	20010314
US2001026850 AA	20011004	US20010847031	20010501
US2003070920 AA	20030417	US20020277533	20021022
US5920455 A	19990706	US19970847219	19970501
US6224985 BA	20010501	US19990304706	19990504
US6468605 BB	20021022	US20010808582	20010314

Priority:

US19970847219 19970501 US19990304706 19990504 US20010808582 20010314
US20010847031 20010501 US20020277533 20021022

Probable Assignee: GREATBATCH LTD NEW YORK CORPORATION

Assignee(s): (std)**:** GREATBATCH W LTD ; SHAH ASHISH ; WILSON GREATBATCH LTD

Assignee(s): WILSON GREATBATCH TECHNOLOGIES INC ; MUFFOLETTO BARRY C ; WILSON GREATBACH LTD ; MANUFACTURERS AND TRADERS TRUST CO ; FLEET NATIONAL BANK ; GREATBATCH LTD ; GREATBATCH LTD NEW YORK CORP ; GREATBATCH LTD (NEW YORK CORPORATION) ; GREATBATCH LTD NEW YORK CORPORATION

Inventor(s): (std)**:** ASHISH SHAH ; BARRY C MUFFOLETTO ; SHAH ASHISH ; MUFFOLETTO BARRY C

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD

Designated states: DE FR GB IT NL SE

64) Family number: 44250236 (US2010068503A)

© PatBase

Title: METHOD FOR PRODUCING NANOCRYSTALLINE DIAMOND COATINGS ON GEMSTONES AND OTHER SUBSTRATES

Abstract: A method to apply nano-crystalline diamond onto a selected substrate, including preparing Nanodiamond slurry of nanodiamond particles dispersed in a medium. The medium may include a liquid or a sol-gel. The selected substrate is immersed in the Nanodiamond slurry for a predetermined period of time. Then the substrate is removed from the slurry. The substrate is then dried with a flow of inert gas. The substrate is left coated with a coating of the nanodiamond particles that are highly adherently held by van der Waals forces.

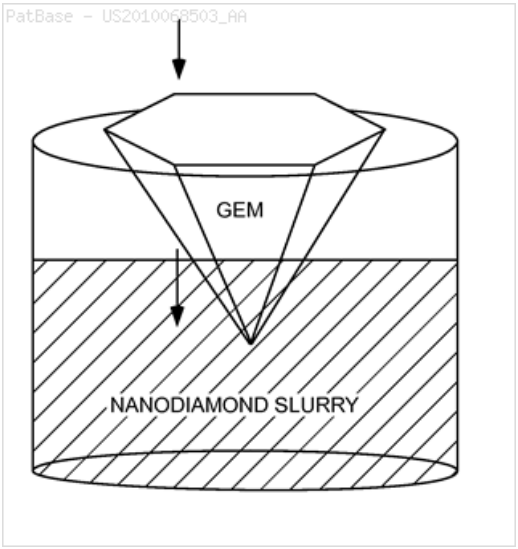
Classifications:

International (IPC 8-9): A44C17/00 A44C27/00 B05D B05D1/18 B05D3/00 B05D3/02 B05D3/04 B05D3/06 B05D3/10 B05D5/00 B05D5/06 B32B5/16 B32B9/00 C04B41/00 C04B41/45 C04B41/50 C04B41/52 C23C16/27 C23C16/455 C23C16/50 (Advanced/Invention); A44C17/00 A44C27/00 (Advanced/Non-invention); A44C17/00 B05D1/18 B05D3/00 B05D3/02 B05D3/04 B05D3/06 B05D3/10 B05D5/00 B05D5/06 B32B5/16 B32B9/00 C23C16/50 (Core/Invention)

CPC: C04B41/4549 C04B41/4533 C04B41/5001 C04B41/5027 C04B41/522 C04B41/5062 C04B14/00 A44C17/007 A44C27/007 C04B41/009 C04B41/5002 C04B41/52 Y10T428/25 Y10T428/30 A44C17/00 A44C27/00 C04B41/0036 C04B41/4531 C04B41/4539 C23C16/27 C23C16/455

European: C04B41/00V C04B41/50B2 C04B41/52 K44C17/00G K44C27/00B4C

US: 1/1 427/249.14 427/299 427/299S 427/337 427/337S 427/372.2 427/372.200S 427/555 427/560 427/560S 427/569 427/569S 427/577 427/596 427/596S 427/601 428/323 428/323P 428/408 428/408S 977/773 977/773S



Family:

Publication number	Publication date	Application number	Application date
EP2303471 A2	20110406	EP20090798852	20090720
EP2303471 A4	20160406	EP20090798852	20090720
EP2303471 B1	20190626	EP20090798852	20090720
EP3549680 A1	20191009	EP20190174866	20090720
HK1155994 A1	20120601	HK20110110616	20111006
HK1155994 A3	20120601	HK20110110616	20111006
TR201910676 T4	20190821	TR20190010676T	20090720
US2010068503 AA	20100318	US20090505648	20090720
US2016029748 AA	20160204	US20150808575	20150724
US9108888 BB	20150818	US20090505648	20090720
US9883723 BB	20180206	US20150808575	20150724
WO10009467 A2	20100121	WO2009US51150	20090720
WO10009467 A3	20100429	WO2009US51150	20090720

Priority:

US20080082030 20080718 US20080082030P 20080718 EP20090798852 20090720
US20090505648 20090720 WO2009US51150 20090720 US20150808575 20150724

Probable Assignee: SERENITY TECHNOLOGIES INC

Assignee(s): (std)**:** ARYAMOND SINGAPORE PTE LTD ; JAYANT NEOGI ; NEOGI JAYANT ; NEOGI SUNEETA ; SERENITY TECHNOLOGIES INC ; NEOGI SUNEETA S ; SERENITY TECH INC ; SUNEETA NEOGI

Inventor(s): (std)**:** NEOGI SUNEETA ; NEOGI JAYANT ; JAYANT NEOGI ; SUNEETA NEOGI ; NEOGI SUNEETA S

Agent(s): LAWRENCE JOHN; BARKER BRETTELL LLP; EMILY YIP AND CO; UGUR GUERSAD YALCINER; PATTERSON THUENTE SKAAR AND CHRISTENSEN PA; PATTERSON THUENTE PEDERSEN PA; ONDERICK PAUL C ET AL

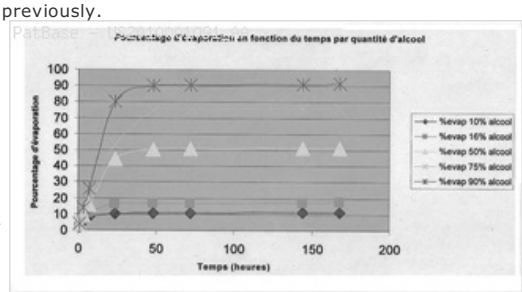
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY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

65) Family number: 44207237 (US2010001091A)

Title: PIEZOELECTRIC ATOMIZER COMPRISING A FRAGRANCING LIQUID COMPOSITION; FRAGRANCING METHOD

Abstract: The invention relates to a cosmetic assembly comprising: (A) a cosmetic or dermatological composition contained inside a reservoir, said composition being liquid and comprising, in a physiologically acceptable medium: (i) from 1 to 90 percent by weight of a fragrance concentrate; (ii) from 1 to 98.5 percent by weight of at least one non-volatile solvent for said concentrate having a density of less than 1; (iii) at least from 0.5 percent to 50 percent by weight of at least one volatile alcohol for said concentrate; said composition having a viscosity less than or equal to 8 mPa.s; the amounts being defined relative to the total weight of the composition; (B) a spraying device comprising a container containing said liquid cosmetic composition, equipped with a piezoelectric spraying mechanism that makes it possible to spray the cosmetic composition in the form of droplets. The invention also relates to a method of fragrancing human keratin materials and especially skin, lips, hair, scalp, nails, comprising at least one step of spraying a fragrancing composition by means of a device as defined previously. The invention also relates to a method of fragrancing the surrounding air comprising at least one step of spraying a fragrancing composition by means of a spraying device as defined previously.

Classifications:
International (IPC 8-9): A45D34/00 A45D34/02 A61K8/00 A61K8/33 A61K8/34 A61K8/37 A61K8/97 A61L9/12 A61L9/14 A61Q1/04 A61Q13/00 A61Q19/00 A61Q3/02 A61Q5/00 A61Q9/02 B05B1/08 B05B17/04 B05B17/06 (Advanced/Invention);
A45D34/00 A61K8/00 A61K8/30 A61K8/96 A61L9/12 A61Q13/00 B05B1/02 B05B17/04 (Core/Invention)
CPC: A61K8/34 A61K8/37 A61K8/39 A61K2800/87 A61Q13/00 A61Q19/002 B05B17/0638 B05B17/0646
European: A61K8/34 A61K8/37 A61K8/39 A61Q13/00 K61K201/142 K61K800/87 K61Q19/00H L05B17/06B5 L05B17/06B5F
US: 239/102.2 239/102.200S 239/4 239/4P



Family:

Publication number	Publication date	Application number	Application date
CN101618375 A	20100106	CN200910163937	20090701
EP2140943 A1	20100106	EP20090163251	20090619
FR2933319 A1	20100108	FR20080054482	20080702
FR2933319 B1	20100813	FR20080054482	20080702
JP2010012269 A2	20100121	JP20090157019	20090701
US2010001091 AA	20100107	US20090496184	20090701

Priority:
FR20080054482 20080702 US20080080518P 20080714 US20090496184 20090701

Probable Assignee: LOREAL SA

Assignee(s): (std): OREAL

Assignee(s): L OREAL ; L OREAL SA ; LOREAL ; LOREAL SA

Inventor(s): (std): ALBELDA VIRGINIE ; CHARBONNIER CIVIER CAROLE ; BARA ISABELLE ; ISABELLE BARAT ; CAROLE CHARBONNIER CIVIER ; ISABELLE BARA ; VIRGINIE ALBELDA

Agent(s): LOREAL; CONNOLLY BOVE LODGE AND HUTZ LLP

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

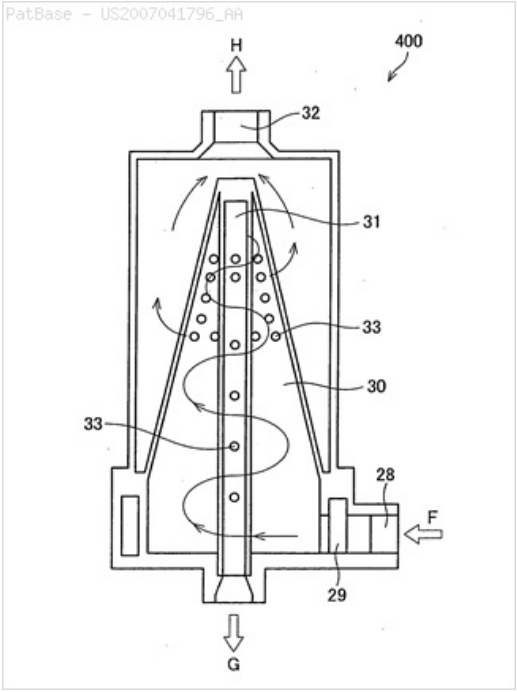
66) Family number: 34226242 (US2007041796A)

Title: PRODUCTION METHOD OF WATER-ABSORBENT RESIN, WATER-ABSORBENT RESIN, AND USAGE OF WATER-ABSORBENT RESIN

Abstract: The subject invention produces a water-absorbent resin by carrying out stationary polymerization of an ethylenically-unsaturated monomer containing acrylic acid and/or acrylate; cutting the resulting hydrous gelatinous polymer; and drying the hydrous gelatinous polymer which mainly contains angular particles having 6 smooth planes. The resulting water-absorbent resin particles are not aggregate, and can be efficiently dried. By coating at least a part of the surface of each of the particles with an adhesion block agent before, after, and/or at the time of cutting process, the adhesion preventing effect further increases.

Classifications:
International (IPC 8-9): A01G13/02 A61L15/00 A61L15/60 B05D7/00 B26D1/12 B29B13/06 B29B13/10 C08F118/02 C08F2/10 C08F20/00 C08F20/06 C08F6/00 C08J3/02 C08J3/075 C08J3/12 C08J7/00 C08L101/14 C08L33/02 C09D5/02 C09K3/24 (Advanced/Invention);
A61L15/00 C08F2/10 C08J3/02 (Advanced/Non-invention);
A01G13/02 A61L15/00 A61L15/16 B05D7/00 B26D1/01 B29B13/00 B29B13/10 C08F118/00 C08F2/04 C08F20/00 C08F6/00 C08J3/02 C08J3/12 C08J7/00 C09D5/02 C09K3/24 (Core/Invention)
CPC: C08J3/075 C08J2333/08 C08L33/08 B29B9/04 B29B9/16 B29B2009/125 B29B2009/163 A61L15/60 B01D53/261 B01D2253/202 B01J2220/68 C08F6/006 C08F220/06 C08F222/1006 C08J3/124 C08J7/06 C08J2333/00 Y10T407/19
European: A61L15/60 B01D53/26B C08F220/06 C08F6/00D C08J3/12B C08J7/06 L01D253/202 L01J220/68 M08F220/06 M08F222/10B M08J333/00
US: 407/30 407/30P 427/212 427/212S 427/421.1 427/421.100S

524/556 524/556S 526/317.1 526/317.100S 526/319 526/319S



Family:

Publication number	Publication date	Application number	Application date
CN1916032 A	20070221	CN200610121695	20060817
CN1916032 B	20110615	CN200610121695	20060817
EP1754725 A2	20070221	EP20060017061	20060816
EP1754725 A3	20080116	EP20060017061	20060816
EP2287215 A2	20110223	EP20100012873	20060816
EP2287215 A3	20110323	EP20100012873	20060816
JP2007077393 A2	20070329	JP20060222080	20060816
JP5183897 B2	20130417	JP20060222080	20060816
KR100905853 B1	20090702	KR20060077836	20060817
KR20070021087 A	20070222	KR20060077836	20060817
TW200712101 A	20070401	TW20060129982	20060815
TWI383008 B	20130121	TW20060129982	20060815
US2007041796 AA	20070222	US20060505692	20060816

Priority:

JP20050236878 20050817 EP20060017061 20060816 JP20060222080 20060816
KR20060077836 20060817

Probable Assignee: NIPPON SHOKUBAI CO LTD

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

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

Inventor(s): (std)**:** IRIE YOSHIO ; DAIROKU YORIMICHI ; KATO SEIJI ; SASABE MASAZUMI ; SASWABE MASAZUMI ; MASAZUMI SASABE ; YORIMICHI DAIROKU ; SEIJI KATO ; YOSHIO IRIE ; YORIMICHI IRIE YOSHIO SASABE M

Inventor(s): IRIE YOSHIO SASABE MASAZUMI KATO SEIJI DAIROKU ; IRIE YOSHIO SASABE MASAZUMI KATO SEIJI DAIROKU YORIMICHI ; IRIE YOSHIO SASABE MASAZUMI KATO SEIJI DAIROKU YOR

Agent(s): GRAF VON STOSCH ANDREAS ET AL; GRAF VON STOSCH ANDREAS; EDWARDS AND ANGELL LLP

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

67) Family number: 32475245 (US2005268668A)

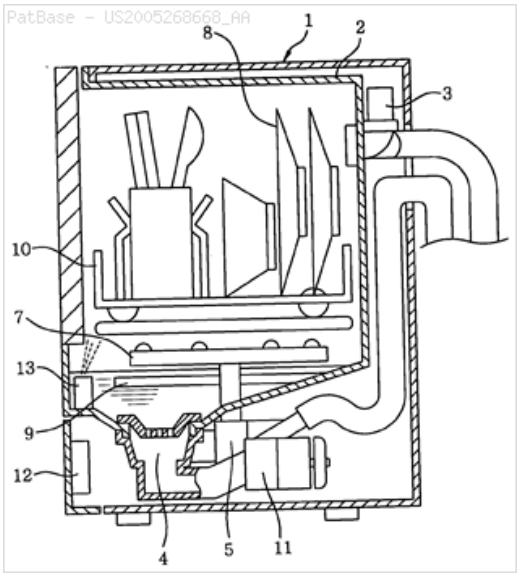
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Title: MIST GENERATING DEVICE, AND DISHWASHER AND WASHING MACHINE USING SAME

Abstract: A mist generating device includes a mist generation vibrator, and a sealed vessel accommodating therein a fluid and provided at a side of a vibrating surface of the mist generation vibrator. A wall portion which constitutes a part of the sealed vessel and faces the mist generation vibrator has a thin film membrane and a mist of liquid outside the sealed vessel is generated by ultrasonic vibration transmitted from the mist generation vibrator via the fluid in the sealed vessel and the thin film membrane.

Classifications:
International (IPC 8-9): A47L15/00 A47L15/13 A47L15/14 A47L15/16 A47L15/42 B05B17/04 B05B17/06 B08B3/00 B08B3/12 D06F17/12 D06F35/00 D06F37/00 D06F39/08 (Advanced/Invention);
A47L15/00 A47L15/14 A47L15/42 (Advanced/Non-invention);
A47L15/00 A47L15/14 A47L15/42 B05B17/04 D06F17/00 D06F35/00 D06F37/00 D06F39/08 (Core/Invention)
International (IPC 1-7): A47L15/00 A47L15/13 A47L15/42 B05B17/04 B05B17/06 B08B3/12 D06F17/12 D06F37/00 D06F39/08
CPC: A47L15/0002 A47L15/0089 A47L2601/17 B05B17/0615 D06F35/006 D06F39/088 A47L15/42
European: A47L15/00A A47L15/00J A47L15/42 D06F35/00E2 D06F39/08 D06F39/08S K47L601/17 L05B17/06B1
US: 134/186 134/198 134/56.00D 134/56.00DS 134/56D 134/95.3

68/3.00R 68/3.00RP 68/3R



Family:

Publication number	Publication date	Application number	Application date
CN100355504 C	20071219	CN200510075417	20050601
CN1706559 A	20051214	CN200510075417	20050601
DE602005014418 D1	20090625	DE200560014418T	20050530
EP1611831 A2	20060104	EP20050011619	20050530
EP1611831 A3	20070228	EP20050011619	20050530
EP1611831 B1	20090513	EP20050011619	20050530
JP2005342662 A2	20051215	JP20040167442	20040604
JP2006007019 A2	20060112	JP20040184728	20040623
JP4066981 B2	20080326	JP20040184728	20040623
JP4079912 B2	20080423	JP20040167442	20040604
KR100770492 B1	20071025	KR20050046517	20050601
KR20060046345 A	20060517	KR20050046517	20050601
TW200608931 A	20060316	TW20050117817	20050531
TWI300341 B	20080901	TW20050117817	20050531
US2005268668 AA	20051208	US20050141311	20050601
US7828909 BB	20101109	US20050141311	20050601

Priority:

JP20040167442 20040604 JP20040184728 20040623

Probable Assignee: MATSUSHITA ELECTRIC INDUSTRIAL CO LTD

Assignee(s): (std): MATSUSHITA ELECTRIC IND CO LTD ; PANASONIC CORP

Assignee(s): MATSUSHITA ELECTRIC IND CO ; MATSUSHITA ELECTRIC INDUSTRIAL CO ; MATSUSHITA ELECTRIC INDUSTRIAL CO LTD

Inventor(s): (std): MIYAUTI TAKASHI ; TAKEUCHI KAZUYOSHI ; MATSUO SHIGERU ; INOUE TAKAYUKI ; INUI HIROAKI ; OYAMA MAKOTO ; TAKEUCHI WAKICHI ; MIYAUCHI TAKASHI ; OYAMA MAKATO ; KAZUYOSHI TAKEUCHI ; HIROAKI INUI ; TAKASHI MIYAUTI ; TAKAYUKI INOUE ; MAKOTO OYAMA ; SHIGERU MATSUO ; MAKOTO MIYAUTI TAKASHI TAKEUCH

Inventor(s): MIYAUTI TAKASHI TAKEUCHI KAZUYOSHI MATSUO ; MIYAUTI TAKASHI TAKEUCHI KAZUYOSHI MATSUO SHIGERU INOUE TAKAYUKI INUI HIROAKI OYAMA MAKOTO ; MIYAUTI TAKASHI TAKEUCHI KAZUYOSHI MATSUO SHIGERU

Agent(s): TURI MICHAEL ET AL; BACON AND THOMAS PLLC

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

68) Family number: 13563245 (US2004197512A)

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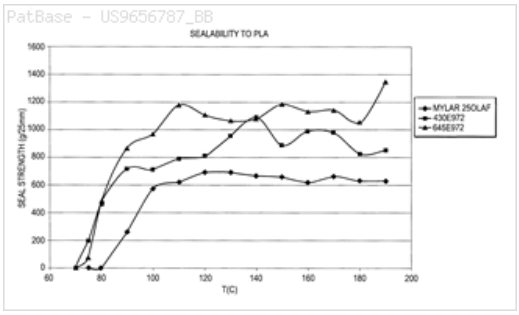
Title: LABELS

Abstract: There is described a label comprising a self supporting sheet of a biopolymer (preferably cellulose (e.g. regenerated cellulose), cellulose acetate and/or PLA) said sheet being substantially transparent to visible light when uncoated characterised in that the sheet comprises: (a) a first coating on at least one surface thereof to aid printability thereon; (b) a second coating comprising an adhesive dispersible in an aqueous medium; and (c) optionally a third coating to modify water permeability through the sheet. The labels are to be applied to articles such as glass containers. Preferred labels are wet glue cellulose labels for example where the first coating also comprises a copolymer of vinyl chloride and vinyl acetate to aid water permeability and hence rapid drying of the label on an article.

Classifications:

International (IPC 8-9): B05D3/00 B05D5/10 B32B1/02 B32B15/00 B32B15/04 B32B15/08 B32B23/00 B32B27/00 B32B27/06 B32B27/08 B32B27/28 B32B27/32 B32B27/34 B32B27/36 B32B29/00 B32B3/00 B32B3/10 B32B33/00 B32B37/00 B32B37/15 B32B38/14 B32B5/02 B32B7/12 B32B9/00 B32B9/04 B65C9/38 B65D B65D23/00 B65D30/00 B65D65/22 B65D65/28 B65D65/40 B65D65/42 B65D65/46 B65D75/58 B65D75/62 B65D75/66 C08J7/04 C09D101/02 C09D127/06 C09J103/02 C09J133/04 C09J133/08 C09J201/00 C09J7/02 C09J7/04 G09F3/00 G09F3/02 G09F3/10 (Advanced/Invention); C09J7/02 G09F3/10 (Advanced/Non-invention);

B05D5/10 B32B27/28 B32B33/00 B32B7/12 B32B9/00 B65C9/00 B65D65/40 C09D101/00 C09D127/02 C09J201/00 C09J7/02 G09F3/00 G09F3/02 G09F3/10 (Core/Invention);
B65D (Subclass/Invention)
International (IPC 1-7): B32B27/28 B32B7/12 B32B9/00 B65C9/38 C09D101/02 C09D127/06 C09J7/02 G09F3/00 G09F3/02 G09F3/10
CPC: B65D65/22 B65D75/5844 B65D75/66 B65D2203/12 B32B1/02 Y10T428/15 C08L2201/06 C09J2400/163 C09J2467/006 Y10T428/2891 C09J2403/006 C09J2405/006 C09J2423/046 Y10T428/249921 Y10T428/31725 Y10T428/31938 Y10T428/31993 Y10T442/20 B65D65/42 B65D65/466 C08J7/047 C08J2300/16 C08J2367/04 C08J2467/00 Y02W90/12 Y02W90/13 C09J2201/162 C09J2203/334 C09J2401/006 Y10T156/10 Y10T428/14 Y10T428/1467 Y10T428/1476 Y10T428/1486 Y10T428/24802 Y10T428/24917 Y10T428/277 Y10T428/28 Y10T428/2804 Y10T428/2835 Y10T428/2839 Y10T428/2848 Y10T428/2865 Y10T428/31504 Y10T428/31678 Y10T428/31685 Y10T428/31703 Y10T428/31714 Y10T428/31786 Y10T428/31844 Y10T428/31971 Y10T428/31975 Y10T428/31978 Y10T428/31986 Y10T428/1334 Y10T428/1345 Y10T428/1352 Y10T428/2852 Y10T428/2861 C09J7/29 G09F3/10 C09J7/25
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US: 156/244.11 156/244.110S 156/277 156/277S 156/307.5 156/307.500S 156/60 156/60S 229/87.05 383/210 427/207.1 427/207.100S 427/208 427/208S 427/372.2 427/372.200S 428/195.1 428/195.100P 428/195.100S 428/209 428/209P 428/221 428/221S 428/342 428/343 428/343S 428/344 428/344P 428/344S 428/35.2 428/35.200P 428/35.5 428/35.7 428/35.700S 428/351 428/351P 428/352 428/352S 428/354 428/354S 428/355.00RS 428/355AC 428/355CP 428/355R 428/355RA 428/40.1 428/40.100P 428/41.6 428/41.8 428/41.800P 428/411.1 428/411.100S 428/42.1 428/457 428/457S 428/459 428/459S 428/464 428/464S 428/467 428/467S 428/474.4 428/474.400S 428/480 428/480S 428/497 428/497S 428/523 428/523S 428/532 428/532S 428/533 428/533S 428/534 428/534S 428/536 428/536S 428/537.5 428/537.500S 442/59 442/59S



Family:

Publication number	Publication date	Application number	Application date
AT307857 E	20051115	AT20020752879T	20020313
CA2440240 AA	20030908	CA20022440240	20020313
CA2440240 C	20100706	CA20022440240	20020313
CN104477507 A	20150401	CN201410589950	20080903
CN1242012 C	20060215	CN20028007997	20020313
CN1501967 A	20040602	CN20028007997	20020313
DE602008019642 D1	20121227	DE200860019642T	20080903
DE60206899 D1	20051201	DE20026006899T	20020313
DE60206899 D1	20051201	DE20026006899	20020313
DE60206899 T2	20060727	DE20026006899T	20020313
DE60206899 T8	20070201	DE20026006899T	20020313
DK1381654 T3	20060320	DK20020752879T	20020313
EP1381654 A1	20040121	EP20020752879	20020313
EP1381654 B1	20051026	EP20020752879	20020313
ES2250679 T3	20060416	ES20020752879T	20020313
GB200106410 A0	20010502	GB20010006410	20010315
HK1147731 A1	20110819	HK20110101847	20110224
HK1203467 A1	20151030	HK20150103945	20150423
JP2004525414 T2	20040819	JP20020573871T	20020313
JP2009009137 A2	20090115	JP20080179692	20080710
JP2011107722 A2	20110602	JP20110016339	20110128
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JP4634693 B2	20110223	JP20020573871T	20020313
JP5017197 B2	20120905	JP20080179692	20080710
JP5192557 B2	20130508	JP20110016339	20110128
KR100858573 B1	20080917	KR20037011993	20020313
KR20040030538 A	20040409	KR20037011993	20020313
MY153012 A	20141231	MY20080003553	20080912
US2004197512 AA	20041007	US20040471694	20040524
US2008305326 AA	20081211	US20080222498	20080811
US2011020578 AA	20110127	US20100820801	20100622
US2011151213 AA	20110623	US20100966829	20101213
US2011165388 AA	20110707	US20100966810	20101213
US2011165417 AA	20110707	US20100966817	20101213
US2012040123 AA	20120216	US20110177388	20110706
US2012045604 AA	20120223	US20110205128	20110808
US2012114893 AA	20120510	US20110153940	20110606
US2012177859 AA	20120712	US20110334293	20111222
US2012201983 AA	20120809	US20120425968	20120321
US2013168440 AA	20130704	US20120708952	20121208
US2014227466 AA	20140814	US20140193819	20140228
US7687125 BB	20100330	US20020471694	20020313
US8173234 BB	20120508	US20080222498	20080811
US8709559 BB	20140429	US20120425968	20120321
US9534152 BB	20170103	US20100820801	20100622
US9656787 BB	20170523	US20140193819	20140228
WO02074874 A1	20020926	WO2002EP02726	20020313

Priority:

GB20010006410 20010315
US20020471694 20020313
US20040471694 20040524
WO2008GB50676 20080807
EP20080788748 20080903
JP20020573871 20020313
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Probable Assignee: INNOVIA FILMS LTD

Assignee(s): (std): GAVEL THIERRY ; HEWITT JONATHAN ; UCB SA ; MIDDLETON WAYNE ; NASIB VELI ; INNOVIA FILMS LTD ; CHAPALAIN FLORIAN ; FALETTI GIANPAOLO ; SWEETMAN ANDY

Assignee(s): INNOVIA FILMS LTD WIGTON ; UCB S A BRUESSEL BRUXELLES ; FUTAMURA CHEMICAL UK LTD ; UCB S A ; INNOVIA FILMS LIMITED

Inventor(s): (std): GAVEL THIERRY ; MIDDLETON WAYNE ; NASIB VELI ; FALETTI GIANPAOLO ; THIERRY GAVEL ; WAYNE MIDDLETON ; VELI NASIB ; VELI GAVEL THIERRY MIDDLETON W ; GAVEL THIERRY UCB S A ; MIDDLETON WAYNE UCB FILMS PLC ; NASIB VELI UCB S A ; FALETTI GIANPAOLO UCB S A ; SWEETMAN ANDY ; HEWITT JONATHAN ; CHAPALAIN FLORIAN ; MILLS PETER ; MAUDE STEVEN

Inventor(s): NASIB VELI UCB SA ; GAVEL THIERRY UCB SA ; FALETTI GIANPAOLO UCB SA ; STEVEN MAUDE ; PETER MILLS ; GAVEL THIERRY MIDDLETON WAYNE NASIB VELI

Agent(s): ROBIC; LEDERER AND KELLER PATENTANWAELTE PARTNERSCHAFT MBB; INSIGHT INTELLECTUAL PROPERTY LTD; INSIGHT HK INTELLECTUAL PROPERTY LTD; ASAMURA KIYOSHI; ASAMURA HAJIME; NAGANUMA TERUO; WENDEROTH LIND AND PONACK LLP; MORRIS MANNING MARTIN LLP; PING; MORRIS MANNING AND MARTIN LLP; ANDREWS KURTH LLP; ANDREWS KURTH KENYON LLP

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

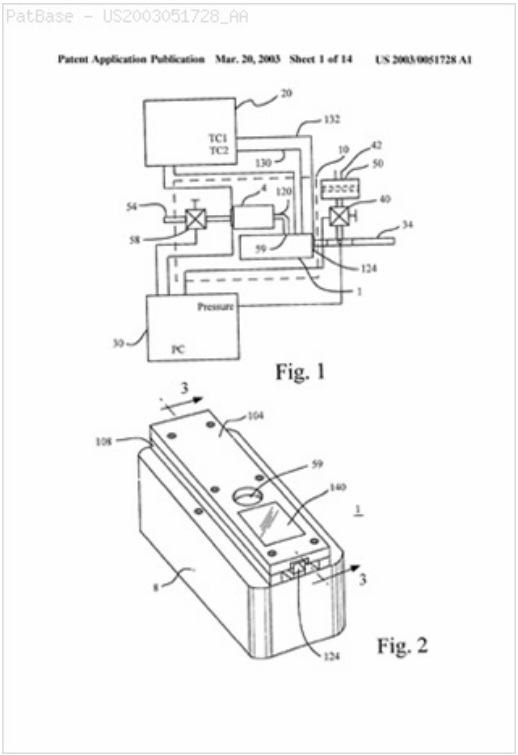
69) Family number: 43004255 (US2003051728A)

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Title: METHOD AND DEVICE FOR DELIVERING A PHYSIOLOGICALLY ACTIVE COMPOUND

Abstract: A method and device are provided to generate an aerosol having a desired particle sizes, i.e., from molecular to about 10 microns, which can be used to effectively deliver a physiologically active compound to organs and tissues such as the lung, eye, mucosa and skin. The aerosol is formed through vaporization of the compound while simultaneously mixing the resulting vapor with air or other gas. The purity of the compound is maintained meet FDA requirements by closely controlling its degradant levels during vaporization.

Classifications:
International (IPC 8-9): A61J3/00 A61K31/4468 A61K45/00 A61K9/00 A61K9/12 A61K9/16 A61K9/72 A61M11/00 A61M11/04 A61M15/00 A61M16/10 A61P23/00 B05B17/04 B05B17/06 B05B7/16 B65D83/14 (Advanced/Invention);
A61M16/00 B05B17/04 B05B7/16 (Advanced/Non-invention);
A61J3/00 A61K45/00 A61K9/16 A61K9/72
A61M15/00 (Core/Invention);
A61K A61M B05B B65D (Subclass/Invention)
International (IPC 1-7): A61K31/4468 A61K9/00 A61K9/12 A61K9/16 A61K9/72 A61M11/00 A61M11/04 A61M15/00 A61M16/10 A61P23/00 A62B7/00 B05B17/04 B05B17/06 B05B7/16 B65D83/14 F23D11/00
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US: 128/200.14 128/203.26 128/204.13 128/204.25



Family:

Publication number	Publication date	Application number	Application date
AT468105 E	20100615	AT20020739267T	20020513
AT503516 E	20110415	AT20020739262T	20020513
AU2002311923 AA	20021216	AU20020311923	20020513
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AU2002311926 AA	20021216	AU20020311926	20020513
AU2002311926 BB	20071206	AU20020311926	20020513
AU2007231750 AA	20071129	AU20070231750	20071030
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CA2447081 AA	20031117	CA20022447081	20020513
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CA2447210 C	20070911	CA20022447210	20020513
CA2447354 AA	20031114	CA20022447354	20020513
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CN100496458 C	20090610	CN20028011407	20020513
CN100551458 C	20091021	CN200710002060	20020513
CN101596175 A	20091209	CN200910132799	20020513

CN1304067 C	20070314	CN20028011406	20020513
CN1512900 A	20040714	CN20028011406	20020513
CN1514719 A	20040721	CN20028011407	20020513
CN1990057 A	20070704	CN200710002060	20020513
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EP1392242 B1	20100519	EP20020739267	20020513
EP1392263 A2	20040303	EP20020742015	20020513
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EP1392381 B1	20110330	EP20020739262	20020513
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JP2004529724 T2	20040930	JP20030501533T	20020513
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JP4510438 B2	20100721	JP20030501429T	20020513
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NZ529298 A	20080328	NZ20020529298	20020513
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WO02098389 A1	20021212	WO2002US15425	20020513
WO02098389 C1	20061012	WO2002US15425	20020513
WO02098390 A2	20021212	WO2002US18608	20020513
WO02098390 A3	20030220	WO2002US18608	20020513
WO02098496 A1	20021212	WO2002US15363	20020513

Priority:

US20010296225P 20010605 US20010057197 20011026 US20010057198 20011026
AU20020311926 20020513 WO2002US18608 20020513 WO2002US15363 20020513
WO2002US15425 20020513 AU20070231750 20071030

Probable Assignee: ALEXZA PHARMACEUTICALS INC

Assignee(s): (std)**:** ALEXZA PHARMACEUTICALS ; ALEXZA PHARMACEUTICALS INC ; ALEXZA MOLECULAR DELIVERY CORP

Assignee(s): ALEXZA MOLECULAR DELIVERY PALO ALTO CORP ; HODGES CRAIG C ; HALE RON L ; LLOYD PETER M ; ROGERS DANIEL D ; MUFSON DANIEL ; MCKINNEY JEFFREY A ; QUINTANA REYNALDO J ; RABINOWITZ JOSHUA D ; MYERS DANIEL J ; MOLECULAR DELIVERY CORP ; WENSLEY MARTIN J ; SONG SOONHO

Inventor(s): (std)**:** CRAIG C HODGES ; HALE RON L ; HALE R L ; HODGERS CRAIG C ; DANIEL MUFSON ; HALE RON ; MUFSON DANIEL ; LLOYD PETER M ; HODGES CRAIG C ; MCKINNEY JEFFREY A ; MYERS DANIEL J ; HODGES C C ; LLOYD P M ; MUFSON C C HODGES P M LLOYD D ; MUFSON D ; JOSHUA D RABINOWITZ ; HODGES CRAIG ; LLOYD PETER ; MCKINNEY JEFFREY ; HODGES CRAIG C LLOYD PETER M M ; ROGERS DANIEL D ; WENSLEY MARTIN J ; QUINTANA REYNALDO J ; SONG SOONHO ; RABINOWITZ JOSHUA D ; MYERS DAVID J ; SOONHO SONG ; WENSLEY MARTIN ; XUNHAO SONG ; QUINTANA REYNALDO ; RABINOWITZ JOSHUA ; ROGERS DANIEL ; QUINTANA REYNOLDO J

Inventor(s): REYNOLDO J QUINTANA ; RL HALE ; PM LLOYD ; SONG XUNHAO ; RON L HALE ; REYNALDO J QUINTANA ; P M LLOYD ; R L HALE ; PETER M LLOYD ; MARTIN J WENSLEY ; JEFFREY A MCKINNEY ; DANIEL J MYERS ; D MUFSON ; DANIEL D ROGERS ; CC HODGES PM LLOYD D MUFSON ; CC HODGES ; C C HODGES ; C C HODGES P M LLOYD D MUFSON ; CRAIG C HODGERS

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; MBM INTELLECTUAL PROPERTY LAW LLP; CLEGG RICHARD IAN; SUITA REIKO; CHIBA AKIO; ONO SHINJIRO; SHAMOTO ICHIO; KOBAYASHI YASUSHI; TOMITA HIROYUKI; YAMAGUCHI AKIKO

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

70) Family number: 28103258 (US2001024700A)

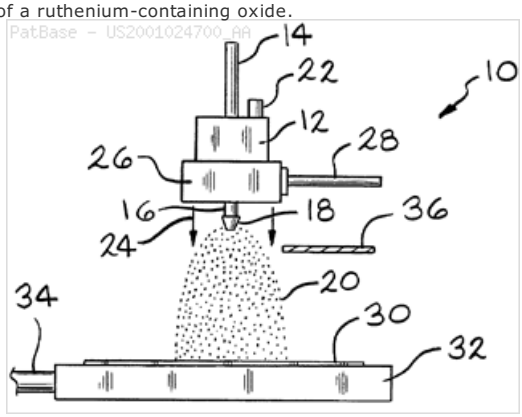
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Title: RUTHENIUM-CONTAINING ULTRASONICALLY COATED SUBSTRATE FOR USE IN A CAPACITOR AND METHOD OF MANUFACTURE

Abstract: A deposition process for coating a substrate with an ultrasonically generated aerosol spray, is described. The

resultant droplets are much smaller in size than those produced by conventional processes, thereby providing the present coating having an increased surface area. When the coated substrate is an electrode in a capacitor, a greater surface area results in an increased electrode capacitance. A preferred coating is of a ruthenium-containing oxide.

Classifications:
International (IPC 8-9): B05B17/06 B05D7/00 B32B9/00 C23C22/76 H01G11/02 H01G11/10 H01G11/12 H01G11/22 H01G11/24 H01G11/30 H01G11/46 H01G11/66 H01G11/70 H01G11/78 H01G11/84 H01G11/86 H01G4/33 H01G9/00 H01G9/04 H01G9/058 (Advanced/Invention);
B05D7/00 B32B9/00 H01G4/33 H01G9/00 H01G9/058 (Advanced/Non-invention);
B05B17/04 B05D7/00 B32B9/00 C23C22/73 H01G4/33 H01G9/00 H01G9/04 H01G9/058 (Core/Invention)
International (IPC 1-7): B05B17/06 B05D3/02 B05D7/00 B06B1/00 B32B15/04 B32B9/00 C23C22/76 H01G4/33 H01G9/04 H01G9/058
CPC: H01G9/04
European: H01G9/04
US: 361/528 361/532 361/535 427/314 427/314S 427/376.2 427/376.200S 427/600 427/600P 427/600S 427/79 428/472 428/472P



Family:

Publication number	Publication date	Application number	Application date
AU199863694 A1	19981105	AU19980063694	19980429
AU735872 B2	20010719	AU19980063694	19980429
DE69835717 D1	20061012	DE19986035717	19980501
DE69835717 D1	20061012	DE19986035717T	19980501
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EP0877402 A1	19981111	EP19980303436	19980501
EP0877402 B1	20060830	EP19980303436	19980501
JP10321465 A2	19981204	JP19980131131	19980423
US2001024700 AA	20010927	US20010872110	20010601
US2003068509 AA	20030410	US20020290598	20021108
US5894403 A	19990413	US19970858150	19970501

Priority:

US19970858150 19970501 US19990280445 19990329 US20010872110 20010601 US20020290598 20021108

Probable Assignee: GREATBATCH LTD NEW YORK CORPORATION

Assignee(s): (std): WILSON GREATBATCH LTD ; GREATBATCH W LTD

Assignee(s): MANUFACTURERS AND TRADERS TRUST CO ; SHAH ASBISH ; WILSON GREATBATCH TECHNOLOGIES INC ; MUFFOLETTO BARRY C ; SHAH ASHISH ; GREATBATCH LTD ; GREATBATCH LTD (NEW YORK CORPORATION) ; GREATBATCH LTD NEW YORK CORP ; GREATBATCH LTD NEW YORK CORPORATION

Inventor(s): (std): MUFFOLETTO BARRY C ; NEAL N NESSELBECK ; ASHISH SHAH ; SHAH ASBISH ; BARRY MUFFOLETTO ; NESSELBECK NEAL N ; MUFFOLETTO BARRY ; SHAH ASHISH

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD

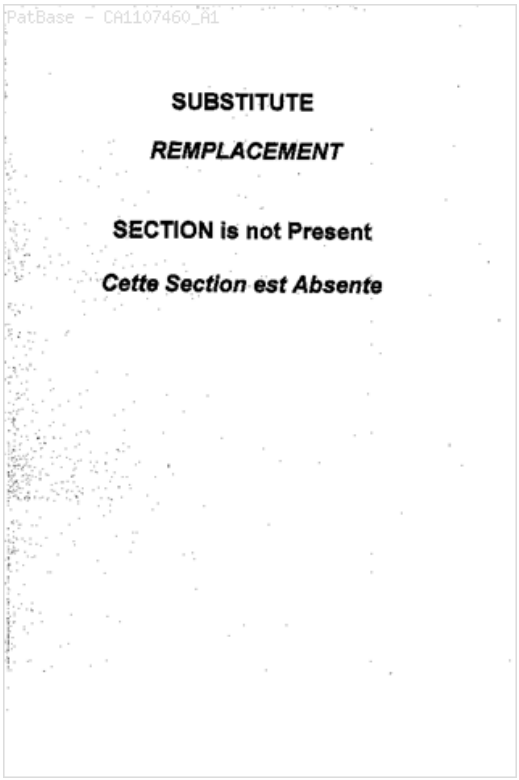
Designated states: CH DE FR GB IT LI NL SE

71) Family number: 5094265 (US4608303A)

Title: PRODUCTION OF ARTICLES FROM MINERALS

Abstract: Vermiculite ore is contacted with an aqueous solution with at least one salt of sodium, lithium or an organosubstituted ammonium cation followed by aqueous washing so that the ore swells. The swollen vermiculite in aqueous suspension is subjected to a shearing action until a suspension containing vermiculite particles having dimensions less than 50 microns is produced with elimination from the suspension of all particles having a diameter larger than 50 microns. Water can then be removed from the suspension.

Classifications:
International (IPC 8-9): B28B1/00 B32B19/04 B32B27/06 B32B5/18 C04B14/20 C04B20/02 C04B30/00 C04B38/00 E04C2/24 (Advanced/Invention);
B32B5/18 (Advanced/Non-invention);
B28B1/00 B32B5/18 C04B14/02 C04B20/00 C04B30/00 C04B38/00 E04C2/10 (Core/Invention)
International (IPC 1-7): A62C33/08 B01J B03B B05D5/00 B28B1/26 B32B13/12 B32B19/00 B32B19/04 B32B27/06 B32B27/14 B32B5/16 B32B5/18 B42F17/30 C01B33/26 C04B31/26 C04B35/16 C04B38/00 C04B39/00 C04B43/00 C04B43/06 C04B43/10 C09K3/28 D21H3/78
CPC: C04B14/204 Y10T428/29 Y10T428/2982 C04B30/00 B28B1/00 C04B14/208 E04C2/243 E04C2/246
European: B28B1/00 C04B14/20D C04B14/20G2 C04B30/00 E04C2/24B E04C2/24C
US: 106/74 209/2 428/357 428/402



Family:

Publication number	Publication date	Application number	Application date
AT377753 B	19850425	AT19770006633	19770915
AT663377 A	19840915	AT19770006633	19770915
AU197728613 A1	19790315	AU19770028613	19770907
AU512983 B2	19801106	AU19770028613	19770907
BE858854 A	19780320	BE19770181036	19770919
CA1107460 A1	19810825	CA19770287332	19770923
DE2741857 A1	19780330	DE19772741857	19770916
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DK422777 A	19780324	DK19770004227	19770923
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FI772780 A	19780324	FI19770002780	19770921
FR2365535 A1	19780421	FR19770028597	19770922
FR2365535 B1	19840622	FR19770028597	19770922
GB1593382 A	19810715	GB19760039510	19760923
GB1593383 A	19810715	GB19800007314	19770826
HU176539 P	19810328	HU1977IE00812	19770920
IT1085985 A	19850528	IT19770027690	19770919
JP1273556 C3	19850711	JP19770110416	19770913
JP1328766 C3	19860730	JP19830033020	19830302
JP53039318 A2	19780411	JP19770110416	19770913
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JP59011547 B4	19840316	JP19770110416	19770913
JP60050752 B4	19851109	JP19830033020	19830302
NL174139 B	19831201	NL19770009983	19770912
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NO146134 B	19820426	NO19770003063	19770905
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US4608303 A	19860826	US19820386670	19820609

Priority:

GB19760039510 19760923 GB19760051425 19761209 GB19800007314 19770826
US19770831913 19770909 CA19770287332 19770923 US19790022078 19790319
US19800116150 19800128

Probable Assignee: IMP CHEMICAL IND PLC A CORP OF GREAT BRITAIN

Assignee(s): (std)**:** ICI LTD ; ICI PLC

Assignee(s): IMP CHEMICAL IND ; IMPERIAL CHEM IND LTD ; IMP CHEMICAL IND PLC A CORP OF GREAT BRITAIN ; IMP CHEMICAL IND LTD ; IMP CHEMICAL IND PLC ; IMP CHEMICAL IND LTD GB ; IMP CHEMICAL IND TE LONDEN LTD ; IMP CHEMICAL IND LTD TE LONDEN ; IMPERIAL CHEMICAL INDUSTRIES LTD ;

Inventor(s): (std):	IMPERIAL CHEMICAL INDUSTRIES PLC ; IMPERIAL CHEMICAL INDUSTRIES LTD LONDON GB ; IMPERIAL CHEMICAL INDUSTRIES LIMITED ; IMPERIAL CHEMICAL IND ; IMPERIAL CHEMICAL IND LTD ; IMPERIAL CHEMICAL INDUSTRIES LIMITED TE LONDEN ; IMPERIAL CHEMICAL INDUSTRIES LTD TE LONDEN ; IMPERIAL CHEMICAL INDUSTRIES LTD GB ; RIDEAL GRAHAM R ; MORLEY DAVID C W ; BALLARD DENIS G H ; CUNDY COLIN S BALLARD D G H ; CUNDY C S ; MORLEY D C W ; RIDEAL G R ; BALLARD DENIS G H ; CUNDY COLIN S ; RIDEAL GRAHAM R ; MORLEY DAVID C W ; BALLARD DENIS GEORGE HAROLD ; CUNDY COLIN STEWART ; MORLEY DAVID CHRISTOPHER WALTO ; RIDEAL GRAHAM ROBIN ; KORIN SUCHIYUWAATO KIYUNDEE ; GURAHAMU ROBIN RIDEIIRU ; CUNDY COLIN ; DEEBITSUDO KURISUTOFUAA UORUTO ; DENISU JIYOOJI HARORUDO BOORAA
Inventor(s):	DCW MORLEY ; CS CUNDY ; DGH BALLARD ; GR RIDEAL ; MORLEY DAVID CW ; BALLARD DENIS GH ; BALLARD D G H CUNDY C S MORLEY D C W AND RIDEAU G R ; RIDEAL GRAHAM ROBIN RUNCORN CHESHIRE GB ; MORLEY DAVID CHRISTOPHER WALTON ; HAROLD BALLARD DENIS GEORGE ; STEWART CUNDY COLIN ; WALTON MORLEY DAVID CHRISTOPHER ; ROBIN RIDEAL GRAHAM ; COLIN STEWART CUNDY ; DENIS GEORGE HAROLD BALLARD ; GRAHAM ROBIN RIDEAL ; DAVID CHRISTOPHER WALTON MORLEY ; BALLARD DENIS G H GB ; MORLEY DAVID C W GB ; RIDEAL GRAHAM R GB ; CUNDY COLIN GB ; C S CUNDY ; D G H BALLARD ; D C W MORLEY ; G R RIDEAL
Agent(s):	PO; PHILLIPS ORMONDE FITZPATRICK; BALLANTYNE DONALD G

72) Family number: 50117270 (US2011305881A)

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Title: ARTICLES HAVING NON-FOULING SURFACES AND PROCESSES FOR PREPARING THE SAME INCLUDING APPLYING A PRIMER COAT

Abstract: Processes are described herein for preparing medical devices and other articles having a low-fouling surface on a substrate comprising a polymeric surface. The polymeric surface material may possess a range of polymeric backbones and substituents while providing the articles with a highly efficient, biocompatible, and non-fouling surface. The processes involve coating the substrate to conceal or reduce flaws on or in the surface of the medical device or other article substrate, and thereafter forming a grafted polymer layer on the treated substrate surface.

Classifications:

International (IPC 8-9): A61L27/14 A61L27/30 A61L27/34 A61L27/54 A61L29/04 A61L29/08 A61L29/10 A61L29/16 A61L31/04 A61L31/10 A61L31/16 A61L33/00 A61L33/02 B05D1/36 B05D3/00 B05D3/02 B05D3/10 B05D3/12 B05D5/00 B05D7/00 B32B27/00 B32B27/40 B32B3/00 B32B5/16 C09D5/16 (Advanced/Invention); B05D7/00 (Advanced/Non-invention)

CPC: B05D3/10 A61L33/027 A61L33/0088 B05D7/54 C09D5/1693 Y10T428/24802 Y10T428/25 Y10T428/31504 Y10T428/31551 Y10T428/31609

European: A61L33/00R4 C09D5/16R L05D7/54

US: 216/37 216/37S 424/423 427/2.1 427/2.25 427/299 427/299S 427/302 427/302S 427/307 427/307S 427/316 427/316S 427/322 427/322S 427/407.1 427/407.100S 427/535 427/535S 427/560 427/560S 428/195.1 428/195.100P 428/323 428/323P 428/411.1 428/411.100S 428/423.1 428/423.100P 428/425.9 530/326 530/327 530/423

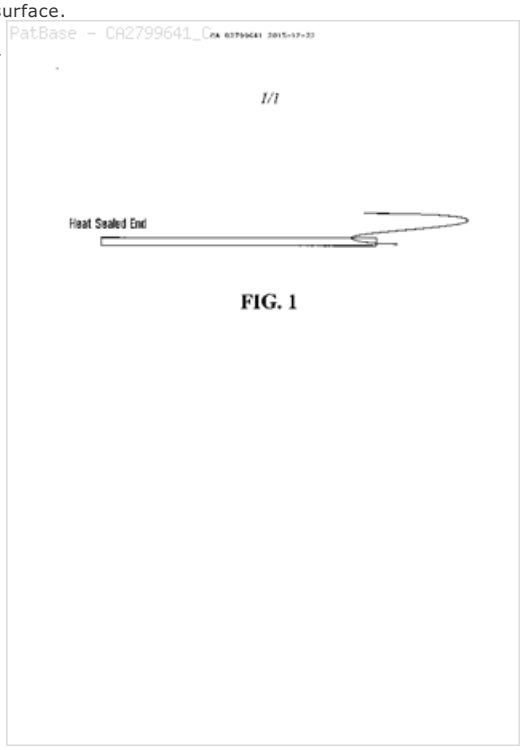


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
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WO11156603 A4	20120614	WO2011US39806	20110609
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Priority:

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US20110156904 20110609 WO2011US39799 20110609 WO2011US39815 20110609
WO2011US39806 20110609 US20130044188 20131002

Probable Assignee: ARROW INT INC

Assignee(s): (std): LOOSE CHRISTOPHER R ; ZHANG ZHENG ; WEAVER DOUGLAS J K ; LI JUN ; MARCHESE ERIC W ; NGUYEN PHU C ; SCHULTZ KAREN A ; ROTH LAURENCE A ; SCHULTZ KAREN ANN ; SEMPRUS BIOSCIENCES CORP ; ARROW INT INC ; BOUCHARD MICHAEL A ; COURY ARTHUR J ; DELEAULT ABBY N ; HUVAL CHAD C

Assignee(s): JPMORGAN CHASE BANK NA ADMINISTRATIVE AGENT AS ; WEAVER DOUGLAS JK

Inventor(s): (std): SCHULTZ KAREN ANN ; SCHULTZ KAREN A ; ROTH LAURENCE A ; NGUYEN PHU C ; MARCHESE ERIC W ; BOUCHARD MICHAEL A ; COURY ARTHUR J ; DELEAULT ABBY N ; LI JUN ; WEAVER DOUGLAS J K ; ZHANG ZHENG ; HUVAL CHAD C ; LOOSE CHRISTOPHER R

Inventor(s): WEAVER DOUGLAS JK

Agent(s): SMART AND BIGGAR; SMAGGASGALE GILLIAN HELEN; BRYAN CAVE LLP; BAKER HOSTETLER LLP; BAKER AND HOSTETLER LLP; SODEY BENJAMIN J

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

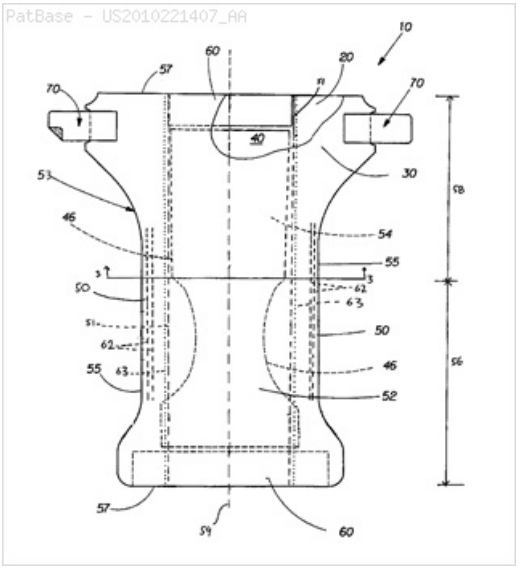
73) Family number: 46712274 (US2010221407A)

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Title: METHOD FOR IMPROVING THE BARRIER PROPERTIES OF A NONWOVEN

Abstract: A method for improving the barrier properties of a material. The method includes providing a material, applying a hydrophobic surface coating thereto, and incorporating the material into an absorbent article. The hydrophobic surface coating includes a non-aqueous, solventless, multicomponent silicone composition. The hydrophobic surface coating may be substantially free of aminosilicones.

Classifications:
International (IPC 8-9): A61F A61F13/15 A61F13/45 A61F13/47 A61F13/475 A61F13/49 A61F13/494 A61F13/496 A61F13/511 A61F13/66 A61L15/22 A61L15/24 A61L15/26 A61L15/42 A61L15/52 A61L15/58 B05D3/02 B05D5/00 B32B5/02 B32B5/26 D04H1/559 D04H13/00 D04H3/016 D04H3/14 D04H3/16 D06M11/77 D06M15/643 (Advanced/Invention);
A61F13/15 A61F13/49 A61F13/51 (Advanced/Non-invention);
A61F13/15 A61L15/16 B05D3/02 B05D5/00 (Core/Invention)
CPC: A61F2013/00319 A61L15/26 A61L15/52 A61L15/42 A61F13/51405 A61F2013/15447 A61F13/15203 A61F2013/49092 A61F13/4942 A61F13/4753 A61F2013/15487 A61F2013/15552 A61F2013/51011 A61F2013/51064 A61F13/15577 B32B5/022 B32B2250/20
European: A61F13/475A1B A61F13/494A1A A61F13/514A2 A61L15/26 A61L15/52 K61F13/00J25A
US: 1/1 427/2.3 427/2.300P 604/358 604/365 604/365P 604/367 604/367P 604/372 604/372P 604/372S 604/378 604/378S 604/381 604/385.101 604/385.101S 604/385.22 604/385.220S 604/385.23 604/385.230S 604/385.24 604/385.240P 604/385.28 604/385.280S



Family:

Publication number	Publication date	Application number	Application date
BR112012019845 A2	20160524	BR20121119845	20110210
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EP2533745 A1	20121219	EP20110706077	20110210
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US2011196327 AA	20110811	US20110024844	20110210
US2011196332 AA	20110811	US20110024858	20110210
US2012150135 AA	20120614	US20110326606	20111215
US2014052087 AA	20140220	US20130012084	20130828
US2014249498 AA	20140904	US20140215447	20140317
US2015038930 AA	20150205	US20140483256	20140911
US2016256335 AA	20160908	US20160156579	20160517
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US8513483 BB	20130820	US20100691929	20100122
US8716549 BB	20140506	US20110024858	20110210
US8859843 BB	20141014	US20110326606	20111215
US9364374 BB	20160614	US20140215447	20140317
US9655789 BB	20170523	US20140483256	20140911
US10369060 BB	20190806	US20160156579	20160517
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WO10099191 A2	20100902	WO2010US25217	20100224
WO10099191 A3	20110421	WO2010US25217	20100224
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WO11100414 A1	20110818	WO2011US24329	20110210
ZA201205999 A	20160127	ZA20120005999	20120808

Priority:

US20090156150P 20090227	US20090156090P 20090227	US20100691934 20100122
US20100691929 20100122	US20100303177P 20100210	US20100303184P 20100210
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Probable Assignee: POLYMER GROUP INC

Assignee(s): (std)**:** CATALAN KEMAL VATANSEVER ; CHENG CALVIN HOI WUNG ; CHHABRA RAJEEV ; TEE JOHANNSON JIMMY JR ; PROCTER AND GAMBLE ; NELSON DEEANN LING ; ISELE OLAF ERIK ALEXANDER ; OLAF OLAF ERIK ALEXANDER ; TEE JR JOHANNSON JIMMY

Assignee(s): US BANK NATIONAL ASSOCIATION COLLATERAL AGENT AS ; THE PROCTER AND GAMBLE COMPANY ; BANK OF AMERICA NA ABL COLLATERAL AGENT AS ; PROCTER AND GAMBLE COONE PROCTER & GAMBLE PLAZACINCINNATIOH45202US ; PROCTER AND GAMBLE COWORLD SHAVING HEADQUARTERSIP/LEGAL PATENT DEPARTMENT - 3EONE GILLETTE PARKBOSTONMA02127US ; PROCTER AND GAMBLE CO CINCINNATI ; PROCTER AND GAMBLE CO ; POLYMER GROUP INC ; CREDIT SUISSE CAYMAN ISLANDS BRANCH TERM COLLATERAL AGENT AG AS

Inventor(s): (std)**:** CATALAN KEMAL VATANSEVER ; TEE JR JOHANNSON JIMMY ; TEE JOHANNSON JIMMY JR ; CHENG CALVIN HOI WUNG ; CHHABRA RAJEEV ; NELSON DEEANN LING ; ISELE OLAF ERIK ALEXANDER ; WUNG CHENG CALVIN HOI ; LING NELSON DEEANN ; ALEXANDER ISELE OLAF ERIK ; OLAF OLAF ERIK ALEXANDER ; JIMMY TEE JOHANNSON JR ; VATANSEVER CATALAN KEMAL ; RAJEEV CHHABRA

Inventor(s): CALVIN HOI WUNG CHENG ; OLAF ERIK ALEXANDER ISELE ; DEEANN LING NELSON ; ISELE OLAF ; ISELE OLAF ERIK ALEXANDERUS ; CHENG CALVIN HOI WUNGUS ; NELSON DEEANN LINGUS ; CHHABRA RAJEEVUS ; JOHANNSON JIMMY TEE JR ; KEMAL VATANSEVER CATALAN

Agent(s): DIMOCK STRATTON LLP; WILSON LUE LLP; KREMER VERONIQUE MARIE JOSEPHINE; NAGAI HIROSHI; PROCTER AND GAMBLE CO GLOBAL LEGAL DEPARTMENT IP; THE PROCTER AND GAMBLE COMPANY,GLOBAL LEGAL DEPARTMENT - IP; JOHN G; KATHLEEN Y; LAURA L; WEDNESDAY G; SHIPP WEDNESDAY G; ALBRECHT DANIEL S; THE PROCTER AND GAMBLE COMPANY; PROCTER AND GAMBLE CO

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

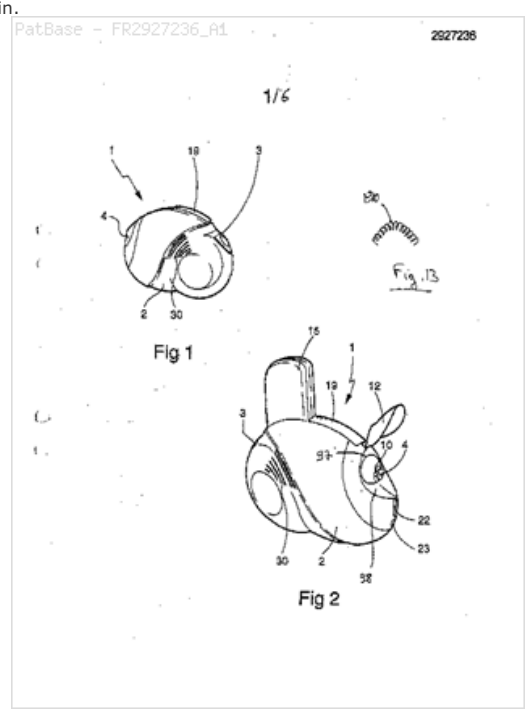
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74) Family number: 43630274 (FR2927236B)

Title: DISPOSITIF DE PULVERISATION D'UNE COMPOSITION COSMETIQUE

Abstract: The assembly has a liquid cosmetic or dermatologic composition, whose viscosity is greater than or equal to 10 milli Pascal seconds, where the composition includes oil and colorant. A spraying device (1) has an aluminum sonotrode coupled to a piezo-electric transducer. The sonotrode is crossed by a channel. The channel is placed in communication with the composition and projected on an ejection surface (4) at non null distance from a peripheral edge of an end collar. The collar is bent under the effect of vibrations of the sonotrode so as to spray the composition in the form of droplets. An independent claim is also included for a method for make-up of a skin.

Classifications:
International (IPC 8-9): A45D34/00 B05B17/06 (Advanced/Invention); A45D34/00 B05B17/04 (Core/Invention)
CPC: B05B9/002 A45D34/02 A45D34/04 A45D2200/057 A45D2200/207 A61K8/894 A61K2800/82 A61Q1/02 B05B9/08 B05B17/0623 B05B17/063
European: A45D34/02 A45D34/04 A61K8/894 A61Q1/02 B05B17/06B2 B05B17/06B2B K45D200/05H6 K45D200/20F K45D34/04S K61K201/03 K61K800/82 L05B17/06B2Y10 L05B9/08



Family:

Publication number	Publication date	Application number	Application date
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FR2927236 B1	20100219	FR20080050925	20080213

Priority:
FR20080050925 20080213

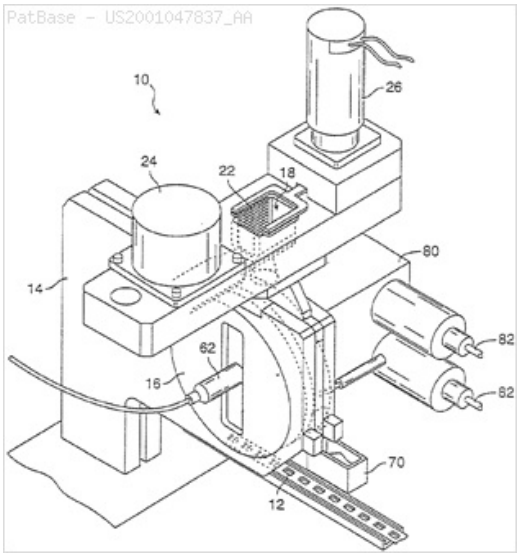
Probable Assignee: LOREAL SA
Assignee(s): (std): LOREAL SA ; OREAL
Assignee(s): L OREAL ; L OREAL SOC ANONYME ; L OREAL SOCIETE ANONYME
Inventor(s): (std): DURU NICOLAS ; TIERCE PASCAL ; ARNAUD PASCAL ; PRUNIER MARION
Inventor(s): NICOLAS DURU ; PASCAL ARNAUD ; PASCAL TIERCE ; MARION PRUNIER
Agent(s): LOREAL

75) Family number: 28322277 (US2001047837A)

Title: Powder filling systems, apparatus and methods

Abstract: The invention provides methods, systems and apparatus for the metered transport of fine powders into receptacles. According to one exemplary method, the fine powder is first fluidized. At least a portion of the fluidized fine powder is then captured. The captured fine powder is then transferred to a receptacle, with the transferred powder being sufficiently uncompacted so that it may be dispersed upon removal from the receptacle.

Classifications:
International (IPC 8-9): A61M15/00 B05B1/00 B05B7/00 B65B B65B1/04 B65B1/08 B65B1/16 B65B1/20 B65B1/30 B65B1/36 B65B3/04 B65B31/00 B65B9/04 B67C B67C3/00 (Advanced/Invention); B65B1/04 B65B1/30 B65B3/04 (Advanced/Non-invention); A61M15/00 (Core/Non-invention)
International (IPC 1-7): A61M15/00 B05B1/00 B05B7/00 B65B1/04 B65B1/16 B65B1/20 B65B1/30 B65B1/36 B65B3/04 B65B31/00 B67C3/00
CPC: B65B1/366 B65B9/042
European: B65B1/36B2 B65B9/04B
US: 141/11 141/11P 141/12 141/125 141/125S 141/129 141/129S 141/12P 141/18 141/18P 141/18S 141/2 141/234 141/234S 141/237 141/237S 141/238 141/238S 141/241 141/241S 141/242 141/280 141/280S 141/286 141/286S 141/2S 141/67 141/67S 141/71 141/8



Family:

Publication number	Publication date	Application number	Application date
AR006791 AA	19990929	AR1997P101628	19970422
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AU199725917 A1	19971119	AU19970025917	19970327
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DE69729095 T8	20111229	DE19976029095T	19970327
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DK1437299 T3	20160201	DK19970075595T	19970327
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EP0912396 A4	20011031	EP19970917652	19970327
EP0912396 B1	20040512	EP19970917652	19970327
EP0912396 B2	20110105	EP19970917652	19970327
EP1437299 A1	20040714	EP20040075595	19970327
EP1437299 B1	20151021	EP20040075595	19970327
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ES2218674 T5	20110506	ES19970917652T	19970327
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HU9902761 AC	20000328	HU19990002761	19970327
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PL330074 A1	19990426	PL19970330074	19970327
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RU2188781 C2	20020910	RU19980121309	19970327
RU98121309 A	20000920	RU19980121309	19981126
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TW324665 B	19980111	TW19970107312	19970529
US2001047837 AA	20011206	US20010873771	20010604
US2002148527 AA	20021017	US20020160229	20020528
US2004031536 AA	20040219	US20030418966	20030418
US2005263206 AA	20051201	US20050146950	20050607
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US7669617 BB	20100302	US20050146950	20050607
WO9741031 A1	19971106	WO1997US04994	19970327
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Priority:

US19960638515 19960426 CZ19980003369 19970327 EP19970917652 19970327
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EP19970917652 19971106 US19980146642 19980903 US20010873771 20010604
US20020160229 20020528 US20030418966 20030418 US20050146950 20050607

Probable Assignee: NOVARTIS AG

Assignee(s): (std): INHALE THERAPEUTIC SYST ; INHALE THERAPEUTIC SYSTEM ; INHALE THERAPEUTIC SYSTEMS ; NAYDO KYLE ; INKHEJL TERAP JUTIK SISTEMZ ; NEKTAR THERAPEUTICS ; NEKTAR THERAPEUTICS SAN CARLOS ; NOVARTIS PHARMA AG ; PARKS DERRICK J ; ROCCHIO MICHAEL J ; WIGHTMAN DENNIS E ; SMITH ADRIAN E ; NOVARTIS AG

Assignee(s): INKHEJL TERAP'JUTIK SISTEMZ ; INHALE THERAPEUTIC SYSTEMS INC SOC ORGANIZADA BAJO LAS LEYES DEL ESTADO DE DELAWARE ; NEKTAR THERAPEUTICS 150 INDUSTRIAL ROAD SAN CARLOS CA94070 UNITED ; INHALE THERAPEUTIC SYSTEMSUS ; INHALE THERAPEUTIC SYSTEMS INC

Inventor(s): (std): PARKS DERRICK ; ROCCHIO MICHAEL ; WIGHTMAN DENNIS ; SMITH ADRIAN ; NAYDO KYLE ; PARKS DERRIK DZH ; ROCHCHO MAJKL DZH ; NEJDO KAJL ; VAJTMAN DENNIS E ; SMIT EHDRIAN E ; NAYDO ; PARKS ; ROCCHIO ; SMITH ; WIGHTMAN ; SMITH ADRIANE E ; NAYDO KYLE A ; DENNIS E WIGHTMAN ; KYLE NAYDO ; DERRICK J PARKS MICHAEL J ROCCHIO KYLE NAYDO ; ADRIAN E SMITH ; DERRICK J PARKS ; MICHAEL J ROCCHIO ; WIGHTMAN E ; ROCCHIO J ; SMITH E ; PARKS J ; ROCCHIO MICHAEL J ; PARKS DERRICK J ; SMITH ADRIAN E ; WIGHTMANN DENNIS E ; NAYDO NAYDO ; WRIGHTMAN DENNIS E ; WIGHTMAN DENIS E ; WIGHTMAN DENNIS E ; NAYDO DERRICK J PARKS MICHAEL

Inventor(s): DENNIS E WIGHTMANN ; PARKS DERRICK J BELMONT ; NAYDO KYLE SUNNYVALE ; SMITH ADRIAN E BELMONT ; ROCCHIO MICHAEL J HAYWARD ; WIGHTMAN DENNIS E CUPERTINO ; DENNIS E WRIGHTMAN

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; GOWLING LAFLEUR HENDERSON LLP; VILLASECA; ERNESTO CAVELIER; EVENS PAUL JONATHAN; VALLEJO JUAN PEDRO; CHINA SINDA INTELLECTUAL PROPERTY LTD ROOM 3410 34 F 118 CONNAUGHT ROAD WEST; SANFORD TCOLB AND CO; NEKTAR THERAPEUTICS; MICHAEL J

Designated states: AT AU BE BR CA CH CN CZ DE DK ES FI FR GB GR HU IE IL IT JP KR LI LU MC MX NL NO NZ PL PT RU SE SG TR

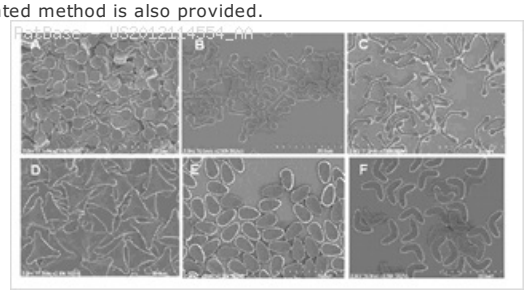
76) Family number: 48165278 (US2012114554A)

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Title: ENGINEERED AEROSOL PARTICLES, AND ASSOCIATED METHODS

Abstract: An engineered aerosol particle for use in aerosol applications is provided. The engineered aerosol particle comprises a fabricated nanoparticle body member being non-spherical. The fabricated nanoparticle body member is configured to provide at least one of auto-rotation, tumbling, or lift when entrained in an airstream to thereby increase settling time of the fabricated nanoparticle body member. An associated method is also provided.

Classifications:
International (IPC 8-9): A61J3/02 A61J3/07 A61K38/00 A61K45/00 A61K49/00 A61K51/00 A61K9/12 A61K9/51 B01J2/22 B05B15/00 B32B5/16 C08G63/08 C08G65/08 (Advanced/Invention); B82Y30/00 B82Y5/00 (Advanced/Non-invention)
CPC: B01J2/22 Y10T428/2982
European: B01J2/22
US: 239/8 239/8S 424/1.11 424/1.110P 428/402 428/402S 521/182 521/182S 528/421 528/421S 977/773 977/773S 977/906 977/906S



Family:

Publication number	Publication date	Application number	Application date
EP2454011 A2	20120523	EP20100742329	20100713
JP2012532739 T2	20121220	JP20120520713T	20100713
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JP5656996 B2	20150121	JP20120520713T	20100713
JP6189807 B2	20170830	JP20140182213	20140908
US2012114554 AA	20120510	US20100383518	20100713
WO11008737 A2	20110120	WO2010US41797	20100713
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Priority:

US20090225138P 20090713 JP20120520713 20100713 JP20120520713T 20100713
WO2010US41797 20100713 US20100383518 20100713

Probable Assignee: LIQUIDIA TECHNOLOGIES INC

Assignee(s): (std): MAYNOR BENJAMIN ; PATRICK WILL ; NAPIER MARY ; LIQUIDIA TECHNOLOGIES INS ; PILLAI JONATHAN ; LIQUIDIA TECHNOLOGIES INC ; DESIMONE JOSEPH M ; DESIMONE PHILIP ; LAAKER KYLE ; ZHANG HANJUN ; UNIV NORTH CAROLINA ; UNIV OF NORTH CAROLINA AT CHAPEL HILL ; UNIV NORTH CAROLINA CHAPEL HILL

Assignee(s): OF NORTH CAROLINA AT CHAPEL HILL UNIV ; NATIONAL SCIENCE FOUNDATION ; THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

Inventor(s): (std): PHILIP DESIMONE ; WILL PATRICK ; KYLE LAAKER ; JONATHAN PILLAI ; BENJAMIN MAYNOR ; MARY NAPIER ; PILLAI JONATHAN ; LAAKER KYLE ; DESIMONE JOSEPH M ; NAPIER MARY ; PATRICK WILL ; MAYNOR BENJAMIN ; ZHANG HANJUN ; DESIMONE PHILIP

Agent(s): JACKSON MARTIN PETER; KIRK TRENT A 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

77) Family number: 356284 (DE1646052A1)

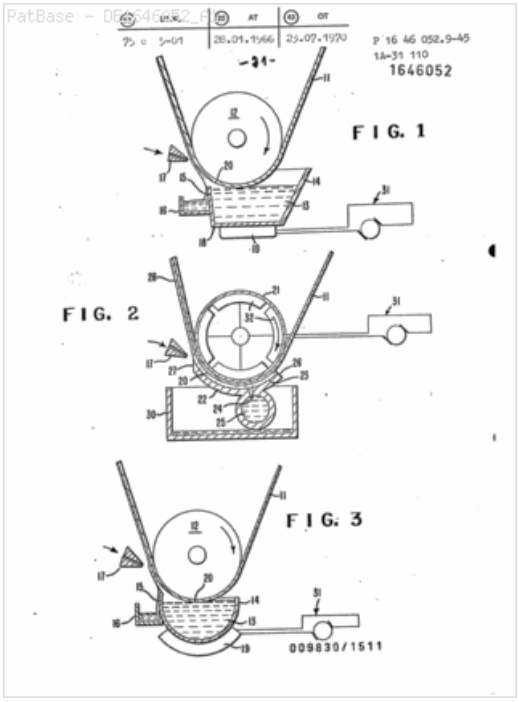
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Title: VERFAHREN UND VORRICHTUNG ZUM AUFBRINGEN EINER FLUESSIGKEITSSCHICHT (UEBERZUG) AUF BAHNFOERMIGES MATERIAL UNTER EINWIRKUNG VON ULTRASCHALL METHOD AND DEVICE FOR APPLYING A FLUESSIGKEITSSCHICHT (coating) ON BAHNFOERMIGES MATERIAL FROM EXPOSURE TO ULTRASOUND (Machine translation)

Abstract: Source: DE1646052A1 [DE] (Claim 1) 1. Vorrichtung zum Aufbringen eines fluessigen Materials in Form eines Ueberzugs auf ein bahnfoermiges Material, g e - k e n n z e i c h n e t durch eine Unterstuetzung (12, 21), mittels deren das bahnfoermige Material (11) bewegt und in Be- - ruehrung mit dem fluessigen Material (13) gebracht werden kann, der Unterstuetzung benachbarte Mittel zum Aufbringen des fluessi- genberzugsmaterials auf das bahnfoermige Material sowie Mittel (19, 32), um hochfrequente Energie an der Trennflaeche zwischen dem Ueberzugsmaterial und dem. bahns oerrii

Machine translation: (Claim 1) 1 Apparatus for applying a liquid material in the form of a coating to a sheet material, ge - characterized by a support (12, 21), by which the sheet material (11) moves in and loading - emotion with the liquid material (13) brought may be, of the adjacent support means for applying the liquid genberzugsmaterials on the sheet material and resources (19, 32) to radio frequency energy at the Trennflaeche Ueberzugsmaterial between the and the. Bahns oerrii

Classifications:
International (IPC 8-9): B05C9/08 G03C1/74 (Advanced/Invention); B05C9/08 G03C1/74 (Core/Invention)
International (IPC 1-7): B05C1/12 B05D1/30
CPC: B05C9/08 G03C1/74 G03C2001/7444
European: B05C9/08 G03C1/74 S03C1/74L



Family:

Publication number	Publication date	Application number	Application date
DE1646052 A1	19700723	DE19661646052	19660128

Priority:
US19650428675 19650128

Probable Assignee: DU PONT

Assignee(s): (std): DU PONT

Assignee(s): E I DU PONT DE NEMOURS AND COMPANY ; EI DU PONT DE NEMOURS AND CO

Inventor(s): (std): EDWIN HENSY PHILIP ; WILLARD WAMSLEY WELCOME

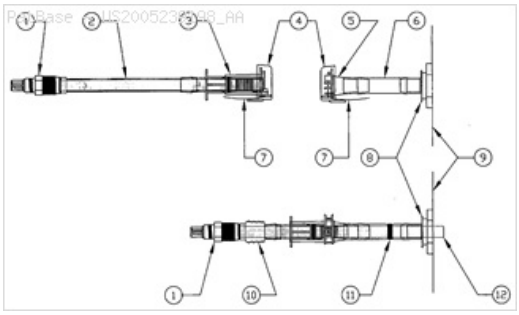
78) Family number: 32362288 (US2005239198A)

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Title: STIRRED-TANK REACTOR SYSTEM

Abstract: The present invention relates to a stirred-tank reactor system and methods of preparing such systems. The present invention further encompasses the use of the stirred-tank reactor system as a disposable bioreactor and in kits with disposable elements.
Classifications:
International (IPC 8-9): A61J1/10 A61J1/14 A61L2/08 B01F11/00 B01F13/02 B01F15/00 B01F15/02 B01F3/04 B01F5/04 B01F7/00

B01F7/16 B01F7/22 B01J19/18 B05B1/02 B23P11/00 B61J B65D65/02 C12M C12M1/00 C12M1/02 C12M1/04 C12M1/06 C12M1/12 C12M1/34 C12M3/00 C12N5/06 C12Q1/02 F16L23/032 (Advanced/Invention);
C12M1/02 (Advanced/Non-invention);
A61J1/10 B01F15/00 B01F7/02 B01F7/16 B05B1/02 B23P11/00 B65D65/02 C12M1/00 C12M1/02 C12M1/04 C12M1/12 C12M3/00 C12N5/06 F16L23/00 (Core/Invention);
B61J (Subclass/Invention)



International (IPC 1-7): C12M1/02 C12M1/12
CPC: B29C65/02 B29C65/04 B29C65/08 B29C65/48 B29C66/5344 C12M29/00 C12M23/46 C12M37/04 B01F2003/04297 B01F2003/04326 C12M23/20 B01F13/0255 B01F5/04 C12M41/00 C12M23/26 B01F2003/04276 B01F3/04439 B01F7/1695 B01F7/22 C12M23/00 C12M29/06 B01F3/04829 C12M37/00 C12M27/04 B01F2003/04312 B01F2003/04382 B01F2003/04361 B01F2003/04397 Y10T29/49826 B01F3/04269 C12M23/06 C12M23/28 C12M23/14 C12M27/02 B01F11/0082 B01F7/001 B01F7/00341 B01F7/00691 B01F7/00725 B01F15/00006 B01F15/00831 B01F15/00837 B01F15/0085 B01F2215/0032 B01F2215/0073
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US: 1/1 261/122.1 261/122.2 261/77 29/428 29/428S 366/101 366/150.1 366/150.100P 366/331 366/331P 366/348 435/243 435/252.1 435/254.1 435/257.1 435/258.1 435/283.1 435/283.100S 435/287.1 435/287.100P 435/289.1 435/289.100P 435/289.100S 435/29 435/290.1 435/290.100S 435/291.5 435/292.1 435/296.1 435/297.1 435/297.100 435/297.100P 435/29P 435/304.1 435/325 435/383 435/394 435/395 435/395P 435/404 435/410

Family:

Publication number	Publication date	Application number	Application date
AU2005237512 AA	20051110	AU20050237512	20050422
AU2005240969 AA	20051117	AU20050240969	20050222
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BRPI0510291 A	20071030	BR2005PI10291	20050222
BRPI0510376 A	20071106	BR2005PI10376	20050422
CA2559496 AA	20060911	CA20052559496	20050222
CA2559537 AA	20060911	CA20052559537	20050422
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CN101163538 B	20120418	CN200680013259	20060421
CN101163786 A	20080416	CN200680013385	20060421
CN101163786 B	20120328	CN200680013385	20060421
CN101163915 A	20080416	CN200680013394	20060421
CN101163915 B	20111005	CN200680013394	20060421
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CN1997730 B	20121003	CN200580013197	20050422
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DE602006046816 D1	20151112	DE200660046816T	20060421
DE602006047474 D1	20160121	DE200660047474T	20060421
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DK1871513 T3	20160111	DK20060758475T	20060421
EP1756259 A2	20070228	EP20050739820	20050422
EP1756259 A4	20090923	EP20050739820	20050422
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EP1763575 A2	20070321	EP20050754066	20050222
EP1763575 A4	20090923	EP20050754066	20050222
EP1871513 A2	20080102	EP20060758475	20060421
EP1871513 A4	20121107	EP20060758475	20060421
EP1871513 B1	20150930	EP20060758475	20060421
EP1871866 A1	20080102	EP20060750951	20060421
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EP1872042 A1	20080102	EP20060750955	20060421
EP1872042 A4	20120530	EP20060750955	20060421
EP3006549 A1	20160413	EP20150196987	20060421
HK1099336 A1	20070810	HK20070105492	20070525
HK1099336 A3	20070810	HK20070105492	20070525
IN01976DN2012 A	20150821	IN2012DN01976	20120305
IN05007DN2006 A	20070427	IN2006DN05007	20060831
IN05012DN2006 A	20070427	IN2006DN05012	20060831
IN258956 B	20140221	IN2006DN05012	20060831
JP2007534335 T2	20071129	JP20070510720T	20050222
JP2008536525 T2	20080911	JP20080507912T	20060421
JP2008536685 T2	20080911	JP20080507911T	20060421
JP2008536686 T2	20080911	JP20080519763T	20050422
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JP5015139 B2	20120829	JP20080507911T	20060421
JP5265345 B2	20130814	JP20080507912T	20060421
KR20070006864 A	20070111	KR20067022279	20050422
KR20070015178 A	20070201	KR20067022278	20061026

MX2007013076 A1	20080407	MX20070013076	20060421
MXPA06011832 A1	20070402	MX2006PA11832	20050422
MXPA06011837 A1	20070116	MX2006PA11837	20050222
US2005239198 AA	20051027	US20050064252	20050222
US2005239199 AA	20051027	US20050112834	20050422
US2006240546 AA	20061026	US20060385629	20060320
US2006270036 AA	20061130	US20060385541	20060320
US2006280028 AA	20061214	US20060379535	20060420
US2008206847 AA	20080828	US20080116050	20080506
US2011097789 AA	20110428	US20110983606	20110103
US2011117594 AA	20110519	US20110014575	20110126
US2012218855 AA	20120830	US20120443391	20120410
US2014087457 AA	20140327	US20130094541	20131202
US2014106453 AA	20140417	US20130109684	20131217
US2015190764 AA	20150709	US20150663068	20150319
US2016158711 AA	20160609	US20160041335	20160211
US2017001160 AA	20170105	US20160265022	20160914
US2017088806 AA	20170330	US20160376362	20161212
US2017246603 AA	20170831	US20170596952	20170516
US7384783 BB	20080610	US20050112834	20050422
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US7879599 BB	20110201	US20060385629	20060320
US7901934 BB	20110308	US20080116050	20080506
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US8623640 BB	20140107	US20120443391	20120410
US9005971 BB	20150414	US20130094541	20131202
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WO05104706 A3	20051215	WO2005US13920	20050422
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WO06116067 A1	20061102	WO2006US15066	20060421
WO06116069 A1	20061102	WO2006US15070	20060421
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Priority:

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Probable Assignee: LIFE TECHNOLOGIES CORP

Assignee(s): (std): BAXALTA GMBH ; BAXALTA INC ; BAXER HEALTHCARE S A ; BAXTER HEALTHCARE SA ; BAXTER INT ; BAXTER INTERNATIONAL INC ; BAXTER HEALTHCARE S A ; BAXTER INT SA ; BAXTER HEALTHCARE CORP ; HYCLONE LABORATORIES INC ; HYCLONE LAB INC ; KUNAS KURT T ; OAKLEY ROBERT V ; HASAN FAUAD F ; GOODWIN MICHAEL E ; LARSEN JEREMY K ; JONES NEPHI D ; OAKLEY ROBERT ; KUNAS KURT THOMAS ; WEST DERIK R ; WOODS WHITT F ; LIFE TECHNOLOGIES CORP ; HYCLONE LAB CO LTD ; LIFE TECH CORP ; HYCLONE LAB

Assignee(s): HYCLONE LAB CO ; LIFE TECHNOLOGIES CORP5791 VAN ALLEY WAYCARLSBADCA92008US ; HYCLONE LABORATORIES INC925 WEST 1800 SOUTHLOGANUT84321US ; HYCLONE LABORATORIES ; LIFE TECHNOLOGIES CARLSBAD CORP ; BAXTER INTERNATIONAL INCORP0RATED ; BAXTER INT INCORP0RATED ; BAXTER INT INCONE BAXTER PARKWAYDEERFIELDIL60015US ; BAXTER HEALTHCARE SA130 THURGAUERSTRASSE8152GLATTPARK (OPFIKON)CH ; BAXTER HEALTHCARE SATHURGAUERSTRASSE 130CH-8152GLATTPARKCH ; BAXTER INT INC DEERFIELD ; BAXTER HEALTHCARE S A HYCLONE LABORATORIES INC ; BAXER HEALTHCARE SA ; BAXTER HEALTH CARE CORP ; BAXTER INT INC ; BAXALTA INC BANNOCKBURN ; BAXALTA GMBH GLATTPARK

Inventor(s): (std): KUNAS KURT T ; OAKLEY ROBERT V ; HASAN FAUAD F ; GOODWIN MICHAEL E ; LARSEN JEREMY K ; JONES NEPHI D ; OAKLEY ROBERT ; FAUAD F HASAN ; NEPHI D JONES ; JEREMY K LARSEN ; MICHAEL E GOODWIN ; KURT T KUNAS ; ROBERT V OAKLEY ; WEST DERIK R ; WOODS WHITT F ; KUNAS KURT T OAKLEY ROBERT V ; KUNAS KURT T OAKLEY ROBERT V H ; THOMAS KUNAS KURT ; ROBERT OAKLEY ; GOODWIN MICHAEL D ; LARSON JEREMY K ; HASAN FAUD F ; KUNAS KURT THOMAS

Inventor(s): FAUD F HASAN ; WEST DERIK ; LARSEN JEREMY ; WOODS WHITT ; JONES NEPHI ; KUNAS KURT ; HASAN FAUAD ; GOODWIN MICHAEL ; WEST DERIK RUS ; LARSEN JEREMY KUS ; JONES NEPHI DUS ; WOODS WHITT FUS ; KUNAS KURT THOMASUS ; HASAN FAUAD FUS ; OAKLEY ROBERTUS ; KUNAS KURT TUS ; GOODWIN MICHAEL EUS ; OAKLEY ROBERT VUS ; LARSEN JEREMY K PROVIDENCE ; GOODWIN MICHAEL E LOGAN ; HASAN FAUAD F SANTA CLARA ; JONES NEPHI D NEWTON ; KUNAS KURT T PLEASANTON ; OAKLEY ROBERT V LAFAYETTE ; OAKLEY ROBERT LAFAYETTE ; KUNAS KURT THOMAS PLEASANTON ; WEST DERIK R LOGAN ; WOODS WHITT F NORTH OGDEN ; JONES NEPHI D PROVIDENCE ; KURT THOMAS KUNAS ; DERIK R WEST ; WHITT F WOODS ; KUNAS KURT T OAKLEY ROBERT V HASAN FAUAD F GOODWIN

Agent(s): PETER MAXWELL AND ASSOCIATES; MAXWELLS PATENT AND TRADE MARK ATTORNEYS PTY LTD; FISHER ADAMS KELLY; FISHER ADAMS KELLY PTY LTD; FISHER ADAMS KELLY CALLINANS; SIM AND MCBURNEY; CASSAN MACLEAN; CASSAN MACLEAN IP AGENCY INC; MUELLER BORE AND PARTNER PATENTANWAELTE PARTG MBB; KRAUS AND WEISERT PATENTANWAELTE PARTGMBB; DEE IAN MARK; PAWLYN ANTHONY NEIL ET AL; PAWLYN ANTHONY NEIL; CHINA SINDA INTELLECTUAL PROPERTY LTD; TANI YOSHIKAZU; ABE KAZUO; BAXTER HEALTHCARE CORP; TOWNSEND AND TOWNSEND AND CREW LLP; WORKMAN NYDEGGER, (F/K/A WORKMAN NYDEGGER AND SEELEY); WORKMAN NYDEGGER F K A WORKMAN NYDEGGER AND SEELEY; WORKMAN NYDEGGER; BELL BOYD AND LLOYD LLP; KELLY PAULA

J F; PAULA J F; WORKMAN

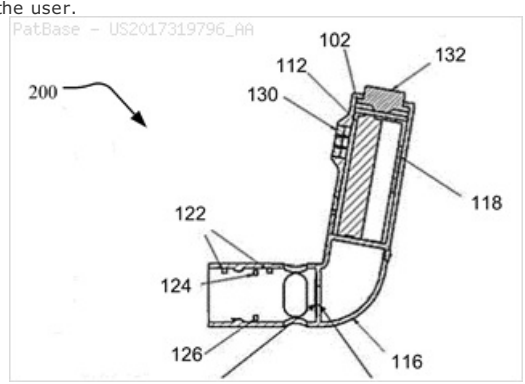
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79) Family number: 67435290 (US2017319796A)

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Title: METHODS FOR GENERATING AND DELIVERING DROPLETS TO THE PULMONARY SYSTEM USING A DROPLET DELIVERY DEVICE

Abstract: A droplet delivery device and related methods for delivering precise and repeatable dosages to a subject for pulmonary use is disclosed. The droplet delivery device includes a housing, a reservoir, and ejector mechanism, and at least one differential pressure sensor. The droplet delivery device is automatically breath actuated by the user when the differential pressure sensor senses a predetermined pressure change within housing. The droplet delivery device is then actuated to generate a stream of droplets having an average ejected droplet diameter within the respirable size range, e.g, less than about 5 micro m, so as to target the pulmonary system of the user.



Classifications:
International (IPC 8-9): A61B5/00 A61B5/08 A61B5/085 A61B5/087 A61B5/091 A61B5/097 A61M A61M11/00 A61M11/02 A61M13/00 A61M15/00 A61M15/02 A61M16/00 A61M16/10 A61M16/14 A61M35/00 B01D45/00 B05B17/00 B05B17/06 G01N21/49 G16H50/20 G16H50/30 (Advanced/Invention);
A61M16/00 (Advanced/Non-invention);
A61M (Subclass/Invention)
CPC: A61M11/003 A61M15/0021 A61M15/0085 A61M15/025 A61M16/0051 A61M16/021 A61M16/142 A61M2016/0021 A61M2016/0027 A61M2016/0039 A61M2205/3306 A61M2205/3569 A61M2205/3592 A61M2205/7536 A61M11/005 A61M16/0066 A61M16/10 A61M16/107 A61M16/108 A61M2205/3331 A61M15/00 A61M16/022 A61M16/024 A61M16/1075 A61M2016/0018 A61M2205/0294 A61M2205/33 A61M2205/3327 A61M2205/3553 A61M2205/3584 A61M2205/502 A61M2205/584 A61M2205/587 A61M2206/11 G16H50/20 A61M11/001 A61M11/002 A61M15/0003 A61M15/002 A61M15/0035 A61M15/0065 A61M15/0081 A61M16/14 A61M2016/0036 A61M2205/0233 A61M2205/0238 A61M2205/103 A61M2205/27 A61M2205/276 A61M2205/3313 A61M2205/3334 A61M2205/505 A61M2205/52 A61M2205/583 A61M2205/6018 A61M2205/6072 A61M2205/8206 A61M2207/00 A61M2230/06 A61M2230/205 A61M2230/30 A61M2230/40 B05B17/06
US: 1/1 128/203.12

Family:

Publication number	Publication date	Application number	Application date
AU2017259982 AA	20181129	AU20170259982	20170503
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CA3022918 AA	20181102	CA20173022918	20170503
CN109414178 A	20190301	CN201780036615	20170503
CN109475707 A	20190315	CN201780037054	20170503
CN109475709 A	20190315	CN201780037744	20170503
EP3451905 A1	20190313	EP20170793294	20170503
EP3452150 A1	20190313	EP20170793284	20170503
EP3452152 A1	20190313	EP20170793287	20170503
IL262735 A0	20181231	IL20170262735	20170503
IN201817044440 A	20191004	IN201817044440	20181126
JP2019514656 T2	20190606	JP20190510563T	20170503
JP2019515764 T2	20190613	JP20180569173T	20170503
JP2019523109 T2	20190822	JP20190510564T	20170503
KR20190004763 A	20190114	KR20187034936	20170503
US2017319796 AA	20171109	US20170596970	20170516
US2017319797 AA	20171109	US20170596935	20170516
US2018344955 AA	20181206	US20180910826	20180302
US2018369515 AA	20181227	US20180058857	20180808
US2019117907 AA	20190425	US20170098721	20170503
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US2019134330 AA	20190509	US20170098806	20170503
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WO17192771 A1	20171109	WO2017US30917	20170503
WO17192773 A1	20171109	WO2017US30919	20170503
WO17192774 A1	20171109	WO2017US30921	20170503
WO17192778 A1	20171109	WO2017US30925	20170503
WO17192782 A1	20171109	WO2017US30929	20170503

Priority:

US20160331328P 20160503 US20160332352P 20160505 US20160334076P 20160510
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US20160422932P 20161116 US20160428696P 20161201 US20170448796P 20170120
US20170471929P 20170315 AU20170260444 20170503 US20170098721 20170503

US20170098800	20170503	US20170098802	20170503	US20170098805	20170503
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Probable Assignee: PNEUMA RESPIRATORY INC

Assignee(s): (std): GERMINARIO LOUIS THOMAS ; HEBRANK JOHN H ; PNEUMA RESPIRATORY INC ; HUNTER CHARLES ERIC ; HUNTER JACK C ; LI CHENGJIE ; MAURER CHRISTOPHER W ; PNEUMA RESPIRATOR INC

Assignee(s): STERN THOMAS P

Inventor(s): (std): STERN THOMAS P ; LI CHEMGJIE ; HUNTER JACK C ; HEBRANK JOHN H ; HUNTER CHARLES ERIC ; MAURER CHRISTOPHER W ; GERMINARIO LOUIS THOMAS ; LI CHENGJIE

Agent(s): SPRUSON AND FERGUSON; SMART AND BIGGAR; MEWBURN ELLIS LLP; ONO SHINJIRO; YAMAMOTO OSAMU; MIYAMAE TORU; NAKANISHI MOTOHARU; NAKAMURA SHOGO; POLSINELLI PC; VINNOLA MILAN M ET AL

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

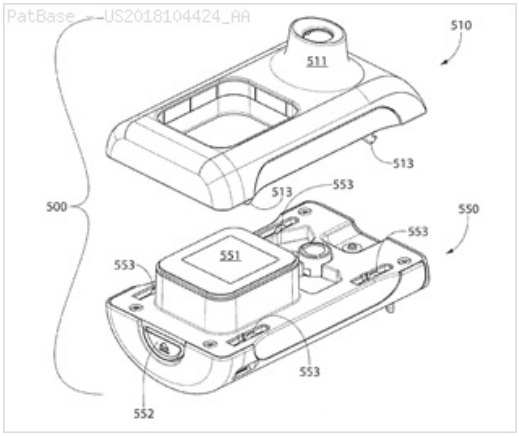
80) Family number: 69332295 (US2018104424A)

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Title: INHALER AND METHODS OF USE THEREOF

Abstract: A medicament delivery device comprises a dosing chamber configured to contain dry powder medicament, a transducer and a controller electrically coupled to the transducer. The medicament delivery device is capable of delivering a therapeutically effective dose of dry powder medicament in response to between 2-20 tidal inhalations, the dose preferably having a mass median aerodynamic diameter (MMAD) of about 6 microns or less and a fine particle fraction of at least 30 percent.

Classifications:
International (IPC 8-9): A61B5/00 A61B5/08 A61B5/087 A61K31/167 A61K31/40 A61K31/4418 A61K38/46 A61K9/00 A61M A61M11/00 A61M11/02 A61M13/00 A61M15/00 A61M15/06 A61M16/00 A61M16/14 A61M37/00 A61P11/00 A61P11/06 A61P11/12 B05B17/04 B05B17/06 B29C51/00 B65D73/00 B65D75/00 B65D83/06 (Advanced/Invention);
A61M16/00 (Advanced/Non-invention);
A61M (Subclass/Invention)
International (IPC 1-7): A61M11/00 A61M15/00
CPC: A61K9/0075 A61P11/00 A61P11/06 A61K38/465 A61K31/4418 A61K31/167 A61K31/40 A61P11/12 A61M15/0025 A61M15/0043 A61M15/0066 A61M2205/103 A61M2205/3368 A61M2205/505 A61M2205/584 A61M15/0035 A61B5/087 A61B5/4839 A61M15/001 A61M15/0021 A61M15/0051 A61M15/0085 A61M15/0086 A61M15/0091 A61M16/14 A61M2016/0021 A61M2016/0027 A61M2016/0039 A61M2202/064 A61M2205/502 A61M2205/583 A61M2205/8206 B29C51/00
US: 1/1 128/203.14



Family:

Publication number	Publication date	Application number	Application date
AU2017342012 AA	20190516	AU20170342012	20171010
BR112019007095 A2	20191001	BR20191107095	20171010
CA3039908 AA	20190409	CA20173039908	20171010
CL2019000958 A1	20190823	CL20190000958	20190409
CN110290822 A	20190927	CN201780074404	20171010
CO20190004078 A2	20190430	CO20190004078	20190424
EP3525855 A1	20190821	EP20170860994	20171010
IL265881 A0	20190630	IL20170265881	20171010
IN201917015393 A	20190719	IN201917015393	20190417
JP2019529061 T2	20191017	JP20190540307T	20171010
KR20190100907 A	20190829	KR20197013131	20171010
PE20190948 A1	20190704	PE20190000788	20171010
US2018104424 AA	20180419	US20170729526	20171010
US2019298945 AA	20191003	US20190381854	20190411
US10238821 BB	20190326	US20170729526	20171010
WO18071423 A1	20180419	WO2017US55946	20171010
WO18071425 A1	20180419	WO2017US55949	20171010
WO18071427 A1	20180419	WO2017US55954	20171010
WO18071429 A1	20180419	WO2017US55958	20171010
WO18071434 A1	20180419	WO2017US55964	20171010
WO18071435 A1	20180419	WO2017US55968	20171010
WO18071441 A1	20180419	WO2017US55975	20171010
WO18071443 A1	20180419	WO2017US55977	20171010
WO18071445 A1	20180419	WO2017US55979	20171010

Priority:

US20160406844P	20161011	US20160406847P	20161011	US20160406848P	20161011
US20160406854P	20161011	US20160406858P	20161011	US20160406860P	20161011
US20160406865P	20161011	US20160406867P	20161011	US20160406870P	20161011
US20170729526	20171010	WO2017US55949	20171010	WO2017US55946	20171010
WO2017US55958	20171010	WO2017US55964	20171010	WO2017US55968	20171010
WO2017US55975	20171010	WO2017US55979	20171010	WO2017US55977	20171010
WO2017US55954	20171010	CL20190000958	20190409	US20190381854	20190411

Probable Assignee: MICRODOSE THERAPEUTX INC

Assignee(s): (std): ALAN D KIRKPATRICK JR ; MICRODOSE THERAPEUTX INC ; HENRI AKOUKA ; TRAVIS ERNEST YOCH ; ROBERT LEONARD ; RYAN POLCIN

Assignee(s): YOCH TRAVIS ; POLCIN RYAN ; LEONARD ROBERT ; KIRKPATRICK ALAN D JR ; AKOUKA HENRI

Inventor(s): (std): AKOUKA HENRI ; ALAN D KIRKPATRICK JR ; BECKER DANIEL ; ERDOSI EMEST ; CHAN PHILIP ; DANIEL BECKER ; HYER RENEE ; KIRKPATRICK ALAN D ; KIRKPATRICK ALAN D JR ; GLEESON JAMES ; KIRKPATRICK JR ALAN D ; KIRKPATRICK ALAN ; KIRKPATRICK JR ; HENRI AKOUKA ; OAKUM CRAIG ; LACOMBE JUSTIN ; LEONARD ROBERT ; YOCH TRAVIS ; POLCIN RYAN ; MOSIER KENT ; KNUDSEN MARK ; TRAVIS ERNEST YOCH ; ROBERT LEONARD ; RYAN POLCIN ; TRAVIS YOCH

Agent(s): GRIFFITH HACK; AIRD AND MCBURNEY LP; ESTUDIO CLARKE MODET AND CO CHILE SPA; PATENT BOUTIQUE LLP; MORGAN LEWIS AND BOCKIUS LLP; MILANO MARIO T ET AL

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

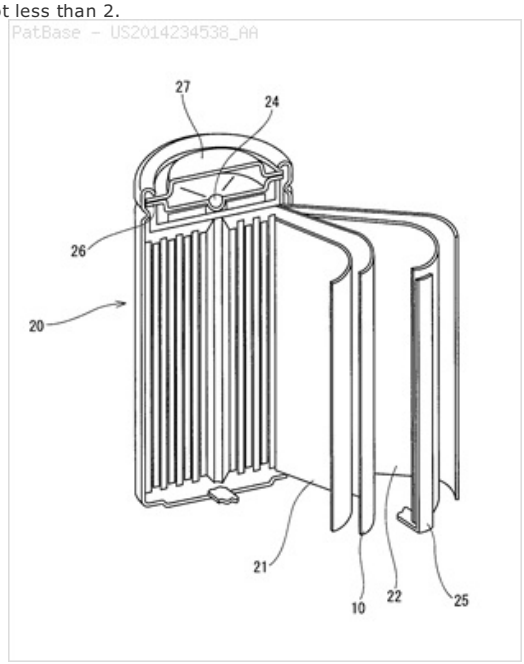
81) Family number: 53329298 (US2014234538A)

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Title: METHOD FOR PRODUCING LAMINATED POROUS FILM, AND LAMINATED POROUS FILM

Abstract: The present invention produces a laminated porous film which improves the stability of an aqueous dispersion of a metal oxide without lowering battery characteristics, while having high binding properties and excellent heat resistance. This laminated porous film exhibits excellent characteristics when used as a separator for batteries. This laminated porous film is produced by forming a porous coating layer on at least one outer surface of a resin porous film, which is formed of a single layer or a laminate of a plurality of layers, by applying a coating liquid that contains a metal oxide, a resin binder and a volatile acid thereto and drying the applied coating liquid. The coating liquid is prepared so that the difference between the pH (pH1) of the coating liquid and the pH (pH2) of the coating layer is not less than 2.

Classifications:
International (IPC 8-9): B05D3/02 B05D7/04 B29C47/00 B32B27/08 B32B27/32 B32B9/00 C08J7/04 C08J9/36 C09D1/00 H01M10/42 H01M2/14 H01M2/16 (Advanced/Invention);
H01M10/052 (Advanced/Non-invention)
CPC: H01M2/145 H01M2220/30 B32B27/08 B32B27/32 B32B2250/24 B32B2255/10 B32B2255/26 B32B2307/518 B32B2307/704 B32B2307/724 B32B2457/10 C09D1/00 H01M2/1646 H01M2/1653 H01M2/1686 H01M10/052 H01M10/4235 C08K2003/2227 C09D5/02 B29C48/00
US: 1/1 427/126.3 427/126.4



Family:

Publication number	Publication date	Application number	Application date
CN103917370 A	20140709	CN201280054426	20120918
JP2013042661 A1	20150326	JP20130534716T	20120918
JP5507766 B1	20140528	JP20130534716T	20120918
JP5507766 B2	20140528	JP20130534716T	20120918
KR20140063820 A	20140527	KR20147009944	20120918
US2014234538 AA	20140821	US20120346565	20120918
US9343719 BB	20160517	US20120346565	20120918
WO13042661 A1	20130328	WO2012JP73840	20120918

Priority:
JP20110206677 20110922 JP20130534716 20120918 WO2012JP73840 20120918

Probable Assignee: MITSUBISHI CHEMICAL CORP

Assignee(s): (std): MITSUBISHI PLASTICS INC ; MITSUBISHI PLASTICS IND

Assignee(s): MITSUBISHI RAYON CO LTD ; MITSUBISHI CHEMICAL CORP

Inventor(s): (std): NEMOTO TOMOYUKI ; YAMADA HIROTO

Agent(s): OHTANI TAMOTSU; HIRASAWA KENICHI; OBLON MCCLELLAND MAIER AND NEUSTADT LLP; OWADA KAZUMI

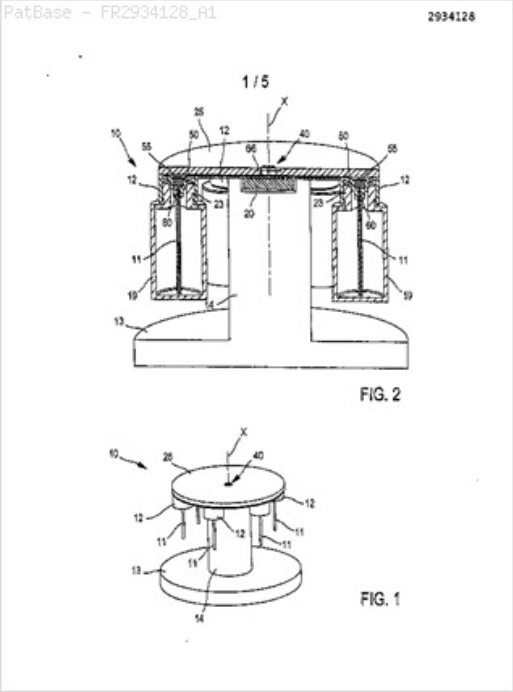
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY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

82) Family number: 44334302 (FR2934128B)

Title: TETE DE DIFFUSION MELANGEUSE

Abstract: The device (10) has a set of reservoirs (19) containing respective liquids to be sprayed, and a spray disk (66). A piezoelectric element (20) transmits pressure waves to the liquids. Supply paths are respectively associated to the reservoirs for conveying the liquids to the disk, where the paths lead to a common spraying zone in which the disk is situated. Spraying chambers respectively communicate with the reservoirs, where the chambers are adjacent to respective portions of the disk. Each of the portions of the disk includes spray orifices.

Classifications:
International (IPC 8-9): A45D34/02 B05B17/06 B05B9/03 (Advanced/Invention); A45D34/00 B05B17/04 B05B9/03 (Core/Invention)
CPC: A45D34/02 B05B7/2472 B05B17/0638 B05B12/14
European: A45D34/02 B05B17/06B5 L05B12/14 L05B7/24A20



Family:

Publication number	Publication date	Application number	Application date
FR2934128 A1	20100129	FR20080055086	20080724
FR2934128 B1	20121214	FR20080055086	20080724

Priority:
FR20080055086 20080724

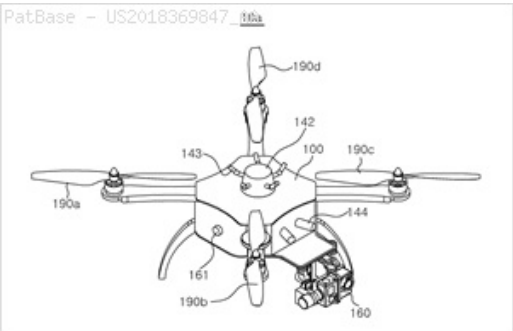
Probable Assignee:	LOREAL SA
Assignee(s): (std):	LOREAL SA ; OREAL
Assignee(s):	L OREAL
Inventor(s): (std):	JOLLET FREDERIC
Inventor(s):	FREDERIC JOLLET
Agent(s):	NONY AND ASSOCIES; CABINET NONY

83) Family number: 64498308 (US2018369847A)

Title: MOBILE FRAGRANCE DISCHARGE DEVICE

Abstract: Provided is a mobile fragrance discharge device. The mobile fragrance discharge device includes a body configured to be movable; a storage mounted to the body and configured to store a fragrance material; a discharge portion configured to connect to the storage and to discharge, to an outside of the body, at least a portion of the fragrance material supplied from the storage; a location detector configured to detect a location or a travel route of the body; and a controller configured to determine a discharge characteristic of the fragrance material based on location information or travel route information of the body and to control the discharge portion to discharge the fragrance material based on the determined discharge characteristic.

Classifications:
International (IPC 8-9): A61L9/03 A61L9/12 A61L9/14 B05B11/00 B05B12/00 B05B12/16 B05B15/60 G05D7/06 (Advanced/Invention)
CPC: A61L9/12 A61L2209/11 A61L2209/13 A47L7/0061 A47L9/2805 A47L9/2836 A47L2201/00 A61L9/032 A61L9/035 A61L9/122 A61L9/125 A61L9/14 A61L2209/111 A61L2209/132 A61L2209/133 A61L2209/134 A61L2209/16 B05B3/022 B05B13/005 B64C39/024 G05D1/0094 G05D2201/0215 A61L9/03 B05B11/0037 B05B12/004 B05B12/02 B05B12/16 B05B15/60 G05D7/0629
US: 1/1 239/11 239/172 422/125



Family:

Publication number	Publication date	Application number	Application date
KR101689761 B1	20161226	KR20160073430	20160613

KR101689763 B1	20161227	KR20160075075	20160616
KR101720266 B1	20170328	KR20160073072	20160613
KR20170103618 A	20170913	KR20160172723	20161216
KR20170103619 A	20170913	KR20160172725	20161216
KR20170103706 A	20170913	KR20170035180	20170321
US2018369847 AA	20181227	US20180121309	20180904
US2018373272 AA	20181227	US20180121268	20180904
US2019008992 AA	20190110	US20180121299	20180904
WO17150917 A1	20170908	WO2017KR02274	20170302
WO17150919 A1	20170908	WO2017KR02277	20170302
WO17150920 A1	20170908	WO2017KR02278	20170302

Priority:

KR20160026674 20160304	KR20160073072 20160613	KR20160073430 20160613
KR20160075075 20160616	KR20160172723 20161216	KR20160172725 20161216
KR20160073430 20161220	WO2017KR02274 20170203	WO2017KR02277 20170203
WO2017KR02278 20170203	WO2017KR02274 20170302	WO2017KR02278 20170302
WO2017KR02277 20170302	KR20170035180 20170321	US20180121309 20180904
US20180121268 20180904	US20180121299 20180904	

Probable Assignee: FUTUREPLAY INC

Assignee(s): (std): FUTUREPLAY INC ; PIUM LABS INC

Assignee(s): LTD FUTURE PLAY

Inventor(s): (std): KIM JONG HO ; HWANG SUNG JAE ; KIHM JAE YEON ; KIM JUNG HO ; KIHM JAEYEON

Agent(s): RYU WON RIM

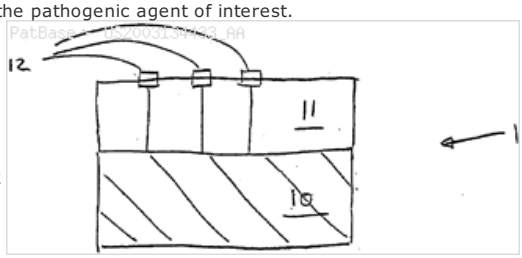
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84) Family number: 31395321 (US2003134433A)

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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 G01N33/58 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 G01N33/58 G01N37/00 G01N7/00 G01R27/08 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

CPC: A61B5/0833 A61B5/4821 A61B5/6819 A61B2562/0285 H01L51/0048 H01L51/0052 H01L51/0512 A61B5/681 A61B5/073 B82Y20/00 G01N25/20 G01K5/486 G01K2211/00 B01L3/50857 B01L2300/0636 B01L2300/0663 B01L2300/0819 B01L2300/0851 B01L2300/0893 B01L2300/0896 B01L2300/16 H01B1/24 H01L51/0097 H01L51/0595 Y10S977/957 Y10S977/72 Y10S977/734 G01N27/129 A61B2562/04 G01N1/28 G01N33/0013 B01L3/5027 A61B5/08 G01N33/005 H01L2924/0002 G01N27/3272 G01N33/0037 G01N33/551 G01N33/566 G01N33/582 Y10T29/49002 G01N33/004 H01L29/0665 H01L29/0673 Y10S977/742 G01N27/127 G01N33/5438 A61B5/082 Y10T436/204998 G01N33/0062 G01N2033/0068 G01N33/0054 H01L29/0669 G01N27/026 G01N27/3277 G01N27/3275 G01N27/3271 G01N27/3278 G01N33/497 A61B5/0836 A61B5/097 B82Y30/00 G01N27/4141 C12Q1/6825 B01L3/502761 B01L3/5029 B01L2200/027 B01L2200/10 B01L2300/0645 C12Q1/682 C12Q1/6823 A61B5/14532 A61B5/14535 A61B5/1486 A61B5/14865 B82Y10/00 B82Y15/00 C12Q1/006 G01N27/4145 G01N27/4146 H01L51/0049 H01L51/0093 H01L51/0545 Y10S977/723 Y02A50/245 C25D3/12 C25D3/46 C25D3/48 C25D3/50 C25D5/02 C25D5/10 C25D5/54 C25D17/005 C25D21/12

European: A61B5/07B A61B5/083B A61B5/083D A61B5/097 A61B5/145G A61B5/1486B A61B5/48D A61B5/68B1H A61B5/68B2B4 B01L3/00C2D8 B01L3/50857 B82Y10/00 B82Y15/00 B82Y20/00 B82Y30/00 C12Q1/00B6B C12Q1/68B2D C12Q1/68B2F C12Q1/68B2H G01K5/48M G01N25/20 G01N27/12E3 G01N27/12G G01N27/30H G01N27/327B G01N27/414 G01N27/414D G01N33/00D2 G01N33/00D2A1 G01N33/00D2D4C G01N33/00D2D4H G01N33/497 G01N33/543K2B G01N33/551 G01N33/566 G01N33/58D H01B1/24 H01L29/06C6 H01L29/06C6W2 H01L51/05D10 K61B5/08 K61B5/145H K61B5/1486 K61B562/02P K61B562/04 L01L200/02D2 L01L200/10 L01L3/5027 L01L3/5027H L01L3/5029 L01L300/06B2 L01L300/06B4 L01L300/06B8 L01L300/08B6 L01L300/08D2 L01L300/08H L01L300/08J L01L300/16 S01K211/00 S01N27/414B S01N27/414C S01N27/48 S01N33/00D2D4C S01N33/00D2D4H S01N33/497 T01L51/00M14 T01L51/00M4D T01L51/00M4D2 T01L51/00M6D T01L51/00S2 T01L51/05B2B T01L51/05B2B6 T01L51/30F4

US: 1/1 204/400 204/403.01 204/403.06 204/403.1 204/403.14 204/403.140P 204/403.15 204/406 204/409 204/415 204/431

205/123 205/123S 205/775 205/777.5 205/778 205/781 205/782 205/782.5 205/783 205/785.5 205/786 205/787 205/792 205/794.5 257/226 257/253 257/253P 257/414 257/414P 257/53 257/9 257/9P 257/9S 257/E21.174 257/E21.174S 257/E29.168 257/E29.168S 257/E31.119 257/E33.06 257/E51.04 29/592.1 29/592.100P 313/309 313/310 313/495 313/495P 324/663 324/663P 324/692 324/71.1 324/71.100P 340/539.26 340/540 340/603 340/628 340/632 361/226 361/226P 374/E5.032 374/E50.32S 422/109 422/109S 422/129 422/129S 422/198 422/198S 422/211 422/211S 422/400 422/400P 422/400S 422/57 422/57P 422/57S 422/58 422/58P 422/68.1 422/68.100S 422/82.01 422/82.02 422/82.020S 422/83 422/83P 422/83S 422/90 422/98 422/98S 427/122 427/122S 435/174 435/174S 435/176 435/176S 435/287.2 435/287.200P 435/287.200S 435/4 435/4S 435/6 435/6.11 435/6.110P 435/6.19 435/6.190P 435/6.190S 435/6P 435/7.1 436/133 436/133S 436/150 436/150P 436/151 436/151S 436/518 438/48 438/48P 506/39 506/39P 600/345 600/345S 600/347 600/347P 600/353 600/353S 600/354 600/354P 600/532 600/532P 600/532S 607/9 607/9S 702/22 702/22P 73/23.3 73/23.300S 73/31.05 73/31.050P 73/31.06 73/61.43 73/61.430P 977/712 977/712S 977/720 977/720S 977/723 977/734 977/742 977/742S 977/750 977/750S 977/752 977/752S 977/755 977/755S 977/762 977/762S 977/773 977/784 977/784S 977/890 977/890S 977/924 977/924S 977/932 977/932S 977/953 977/957 977/962 977/962S 977/DIG.1

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
US2003134433 AA	20030717	US20030345783	20030116
US2004043527 AA	20040304	US20020280265	20021026
US2004132070 AA	20040708	US20030704066	20031107
US2004253741 AA	20041216	US20040773631	20040206
US2005129573 AA	20050616	US20040940324	20040913
US2005157445 AA	20050721	US20040945803	20040920
US2005169798 AA	20050804	US20050090550	20050325
US2005184641 AA	20050825	US20040846072	20040514
US2005245836 AA	20051103	US20040019792	20041220
US2005279987 AA	20051222	US20030656898	20030905
US2006055392 AA	20060316	US20050111121	20050420
US2006228723 AA	20061012	US20050259414	20051025
US2006263255 AA	20061123	US20060354561	20060214
US2007045756 AA	20070301	US20060488465	20060718
US2007048180 AA	20070301	US20060437275	20060518
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US2007132043 AA	20070614	US20060400038	20060406
US2007178477 AA	20070802	US20050212026	20050824
US2007208243 AA	20070906	US20050274747	20051115
US2007259359 AA	20071108	US20070695401	20070402
US2008021339 AA	20080124	US20060588845	20061026
US2008093226 AA	20080424	US20060636360	20061208
US2008185295 AA	20080807	US20070868373	20071005
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US2009056419 AA	20090305	US20080193353	20080818
US2009084678 AA	20090402	US20080146320	20080625
US2009101996 AA	20090423	US20080268327	20081110
US2009165533 AA	20090702	US20080245638	20081003
US2010047901 AA	20100225	US20090607912	20091028
US2010056892 AA	20100304	US20060390493	20060327
US2010085067 AA	20100408	US20090560316	20090915
US2010137731 AA	20100603	US20090485793	20090616
US2010231242 AA	20100916	US20090634525	20091209
US2010323925 AA	20101223	US20060541794	20061002
US2011154648 AA	20110630	US20110047593	20110314
US2012006102 AA	20120112	US20110084465	20110411

US2012018301 AA	20120126	US20110092869	20110422
US2012025165 AA	20120202	US20110096891	20110428
US2013075690 AA	20130328	US20120442720	20120409
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US2013287644 AA	20131031	US20130847353	20130319
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US2014353154 AA	20141204	US20140306160	20140616
US2015008486 AA	20150108	US20140306156	20140616
US2016123947 AA	20160505	US20150724675	20150528
US2016187276 AA	20160630	US20150961572	20151207
US6894359 BB	20050517	US20020280265	20021026
US7449757 BB	20081111	US20040945803	20040920
US7522040 BB	20090421	US20050111121	20050420
US7547931 BB	20090616	US20040019792	20041220
US7714398 BB	20100511	US20060390493	20060327
US7948041 BB	20110524	US20070924328	20071025
US7955559 BB	20110607	US20080146320	20080625
US7956525 BB	20110607	US20040846072	20040514
US8152991 BB	20120410	US20060636360	20061208
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US9234867 BB	20160112	US20130867925	20130422
US9291613 BB	20160322	US20140306156	20140616
US9588077 BB	20170307	US20140306160	20140616
WO04044586 A1	20040527	WO2003US35635	20031107
WO04044586 C1	20050707	WO2003US35635	20031107
WO05026694 A2	20050324	WO2004US30136	20040913
WO05026694 A3	20060803	WO2004US30136	20040913
WO05062031 A1	20050707	WO2004US42998	20041220
WO05094221 A2	20051013	WO2004US30562	20040917
WO05094221 A3	20080103	WO2004US30562	20040917
WO06024023 A2	20060302	WO2005US30487	20050824
WO06024023 A3	20090604	WO2005US30487	20050824
WO06071895 A2	20060706	WO2005US47143	20051223
WO06071895 A3	20070208	WO2005US47143	20051223
WO07114931 A2	20071011	WO2007US08422	20070403
WO07114931 A3	20081224	WO2007US08422	20070403
WO07136523 A2	20071129	WO2007US10836	20070504
WO07136523 A3	20081002	WO2007US10836	20070504
WO08039165 A2	20080403	WO2006US28079	20060718
WO08039165 A3	20080807	WO2006US28079	20060718
WO08045799 A2	20080417	WO2007US80603	20071005
WO08045799 A3	20081113	WO2007US80603	20071005
WO08052104 A2	20080502	WO2007US82503	20071025
WO08052104 A3	20080821	WO2007US82503	20071025
WO09017911 A1	20090205	WO2008US68228	20080625
WO09032534 A1	20090312	WO2008US73746	20080820

Priority:

US20020349670P 20020116	US20020099664 20020315	US20020366566P 20020322
US20020177929 20020621	US20020408362P 20020904	US20020408412P 20020904
US20020408547P 20020905	US20020280265 20021026	US20020424892P 20021108
US20030345783 20030116	US20030445654P 20030206	US20030388701 20030314
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US20030704066 20031107	WO2003US35635 20031107	US20030531079P 20031218
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US20040940324 20040913	WO2004US30136 20040913	WO2004US30562 20040917
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US20040629604P 20041119	US20040019792 20041220	WO2004US42998 20041220
US20040639954P 20041228	US20050652883P 20050215	US20050063504 20050223
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US20050090550 20050325	US20050668879P 20050405	US20050669126P 20050406
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JP20070530178 20050824	US20050212026 20050824	WO2005US30487 20050824
US20050723530P 20051003	US20050259414 20051025	US20050730905P 20051027
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US20050318354 20051223	WO2005US47143 20051223	US20060773138P 20060213
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US20120442720 20120409	US20120442856 20120410	US20130847353 20130319
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Probable Assignee: NANOMIX INC

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

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

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

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

Agent(s): MCLEISH NICHOLAS ALISTAIR MAXWELL; MASUI CHUJI; TOMITA HIROYUKI; SHAMOTO ICHIO; KOBAYASHI YASUSHI; SAKURAI CHIKANORI; CHIBA AKIO; BRIAN M BERLINER OMELVENY AND MYERS LLP; BRIAN M BERLINER ESQ OMELVENY AND MYERS LLP; O'MELVENY AND MYERS LLP; OMELVENY AND MYERS LLP; ATTN DAVID B MURPHY NANOMIX INC; O''MELVENY AND MYERS LLP, IP AND T CALENDAR DEPARTMENT LA-1118; OMELVENY AND MYERS LLP IP AND T CALENDAR DEPARTMENT LA 1118; BEYER WEAVER LLP; WEAVER AUSTIN VILLENEUVE AND SAMPSON LLP; NANOMIX INC; DENNIS ROBERT F; ROBERT F; WEAVER AUSTIN VILLENEUVE AND SAMSPSON LLP; BERGIN DENISE S ET AL; BERGIN DENISE ET AL

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

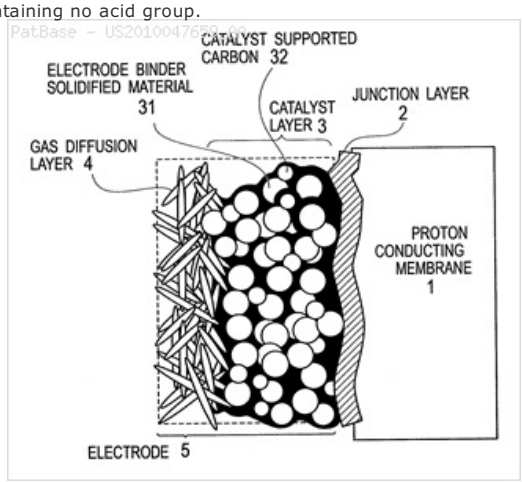
85) Family number: 42178325 (US2010047659A)

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Title: MEMBRANE-ELECTRODE JUNCTION AGENT, PROTON CONDUCTING MEMBRANE HAVING JUNCTION LAYER, MEMBRANE-ELECTRODE ASSEMBLY, POLYMER ELECTROLYTE FUEL CELL, AND MANUFACTURING METHOD OF THE MEMBRANE-ELECTRODE ASSEMBLY

Abstract: A membrane-electrode junction agent, a proton conducting membrane having a junction layer, a membrane-electrode assembly, a polymer electrolyte fuel cell, and a manufacturing method of the membrane-electrode assembly, which enhance the power generation performance, realize the high fuel barrier property, and are capable of enhancing the joint strength between the membrane and the electrodes, is provided. A membrane-electrode junction agent that joins a proton conducting membrane and electrodes arranged on both surfaces of the proton conducting membrane to each other, the membrane-electrode junction agent including: a cross-linked compound (X) having a silicon-oxygen bond; a polymer material (Y) containing an acid group; and a hydrophilic resin (Z) containing no acid group.

Classifications:
International (IPC 8-9): B05D5/12 C08J5/22 C09D183/06 H01B1/12 H01M4/00 H01M4/134 H01M4/86 H01M4/88 H01M4/92 H01M8/02 H01M8/0284 H01M8/10 H01M8/1004 H01M8/24 (Advanced/Invention); B05D5/12 H01M4/00 H01M4/86 H01M8/02 H01M8/10 (Core/Invention)
CPC: H01M8/1004 H01M8/1037 H01M4/8652 H01M4/8807 H01M4/8825 H01M4/926 H01M8/1011 H01M8/1027 Y02E60/523 Y02E60/521 Y02P70/56 H01M8/0258 H01M8/241 H01M8/0297
European: H01M4/86K1 H01M4/88B2 H01M4/88G H01M4/92S2 H01M8/02H H01M8/10B2 H01M8/10C2 H01M8/10E2B14 H01M8/10E2B6 Y02E60/52B Y02E60/52B2 Y02E60/52B2B
US: 106/287.1 106/287.16 427/115 427/115S 429/218.1 429/232 429/30 429/313 429/314 429/315 429/316 429/317 429/33 429/40 429/400 429/448 429/448P 429/491 429/491S 429/492 429/493 429/532 429/532P 429/532S 429/535 528/30 528/33



Family:

Publication number	Publication date	Application number	Application date
CN101606258 A	20091216	CN200880004720	20080313
CN101606258 B	20120718	CN200880004720	20080313
CN101611510 A	20091223	CN200880004783	20080312
CN101611510 B	20130424	CN200880004783	20080312
DE602008021134 D1	20130228	DE200860021134T	20080313
DE602008024270 D1	20130627	DE200860024270T	20080312
EP2131431 A1	20091209	EP20080721943	20080312

EP2131431 A4	20100811	EP20080721943	20080312
EP2131431 B1	20130501	EP20080721943	20080312
EP2131432 A1	20091209	EP20080722026	20080313
EP2131432 A4	20100811	EP20080722026	20080313
EP2131432 B1	20121226	EP20080722026	20080313
JP2008114664 A1	20100701	JP20090505155T	20080312
JP2008114688 A1	20100701	JP20090505174T	20080313
JP4847577 B1	20111228	JP20090505155T	20080312
JP4847577 B2	20111228	JP20090505155T	20080312
JP4847578 B1	20111228	JP20090505174T	20080313
JP4847578 B2	20111228	JP20090505174T	20080313
KR101115137 B1	20120224	KR20097018896	20080313
KR101155756 B1	20120612	KR20097018897	20080312
KR20090119895 A	20091120	KR20097018896	20080313
KR20090121316 A	20091125	KR20097018897	20080312
TW200843187 A	20081101	TW20080109238	20080314
TW200905963 A	20090201	TW20080109240	20080314
TWI430505 B	20140311	TW20080109238	20080314
TWI437755 B	20140511	TW20080109240	20080314
US2010047659 AA	20100225	US20080531242	20080312
US2010092840 AA	20100415	US20080531241	20080313
US8293407 BB	20121023	US20080531241	20080313
US8318377 BB	20121127	US20080531242	20080312
WO08114664 A1	20080925	WO2008JP54527	20080312
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Priority:

JP20070069493 20070316 JP20070193697 20070725 JP20070255896 20070928
JP20070340452 20071228 EP20080721943 20080312 WO2008JP54527 20080312
JP20090505155 20080312 EP20080722026 20080313 JP20090505174 20080313
WO2008JP54622 20080313

Probable Assignee: SEKISUI CHEMICAL CO LTD

Assignee(s): (std): KANOH MASASHI ; KONNO YOSHIHARU ; MIYAMA TOSHIHITO ; MIYAMI TOSHIHITO ; NAKAJIMA HIDEYASU ; SEKISUI CHEMICAL CO LTD

Assignee(s): SEKISUI CHEMICAL CO

Inventor(s): (std): KANOH MASASHI ; NAKAJIMA HIDEYASU ; MIYAMA TOSHIHITO ; KONNO YOSHIHARU ; MASASHI KANOH ; TOSHIHITO MIYAMA ; HIDEYASU NAKAJIMA ; YOSHIHARU KONNO ; MIYAMI TOSHIHITO

Inventor(s): KANOH MASASHI C O SEKISUI CHEMICAL CO LTD ; NAKAJIMA HIDEYASU C O SEKISUI CHEMICAL CO LTD ; MIYAMA TOSHIHITO C O SEKISUI CHEMICAL CO LTD ; KONNO YOSHIHARU C O SEKISUI CHEMICAL CO LTD ; KANOH MASASHI C O SEKISUI CHEMICAL CO LTD ; KANOH MASAHI C O SEKISUI CHEMICAL CO LTD ; KONNO YOSHIHARU C O SEKISUI CHEMICAL CO LTD ; KANO MASAHI C O SEKISUI CHEMICAL CO LTD ; MIYAMA TOSHIHITO C O SEKISUI CHEMICAL CO LTD ; NAKAJIMA HIDEYASU C O SEKISUI CHEMICAL CO LTD

Agent(s): HOFFMANN EITLE PATENT U RECHTSANWAELTE PARTMBB; HOFFMANN EITLE; MIYOSHI HIDEKAZU; SUGHRUE MION PLLC; MIYOSHI HIDEKAZU ET AL

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

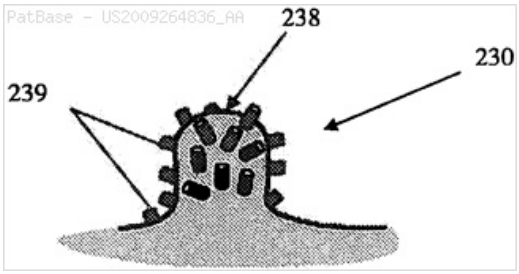
86) Family number: 43874327 (US2009264836A)

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Title: DISPOSABLE ARTICLE INCLUDING A NANOSTRUCTURE FORMING MATERIAL

Abstract: A disposable treatment article or disposable cleaning article that includes a hydrophobic nanoporous material. The disposable treatment or cleaning article is configured to contact and apply the nanoporous material to a surface. The nanoporous material is configured to form hydrophobic nanostructures on a surface upon the application of an activation stimulus. The nanostructures provide an anti-contamination benefit to the surface upon which the nanostructures are disposed.

Classifications:
International (IPC 8-9): A61F13/15 A61F13/20 A61F13/49 A61F13/511 A61F13/513 A61F13/53 A61F13/84 A61K8/02 A61L15/18 A61L15/42 A61L15/50 A61L15/52 A61M35/00 A61Q17/00 B05D5/08 D06M23/08 (Advanced/Invention);
A61F13/15 A61K8/02 A61L15/16 A61M35/00 A61Q17/00 B05D5/08 D06M23/08 (Core/Invention)
CPC: A61F13/511 A61K8/0208 A61K2800/412 A61L15/425 A61L2400/12 A61Q17/00 D06M23/08 D06M2200/05 A61F13/8405 A61F13/51305
European: A61F13/511 A61F13/513B A61F13/84B A61K8/02C A61L15/42E A61Q17/00 D06M23/08 K61K201/101 K61K800/412 K61L400/12 N06M200/05
US: 15/104.001 604/289 604/289P 604/367 604/367S 604/385.01



Family:

Publication number	Publication date	Application number	Application date
BRPI0910889 A2	20151006	BR2009PI10889	20090421
CA2722187 AA	20101021	CA20092722187	20090421
CN102014836 A	20110413	CN200980114522	20090421
DE602009023117 D1	20140522	DE200960023117T	20090421
EP2268250 A2	20110105	EP20090734760	20090421
EP2268250 B1	20140409	EP20090734760	20090421
JP2011518006 T2	20110623	JP20110505262T	20090421

MX2010011507 A1	20101122	MX20100011507	20090421
US2009264836 AA	20091022	US20090369128	20090211
US2015011956 AA	20150108	US20140492400	20140922
US8870839 BB	20141028	US20090369128	20090211
US10071003 BB	20180911	US20140492400	20140922
WO09131962 A2	20091029	WO2009US41181	20090421
WO09131962 A3	20100520	WO2009US41181	20090421

Priority:

US20080046891P 20080422 US20090369128 20090211 EP20090734760 20090421
WO2009US41181 20090421 US20140492400 20140922

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): GARTSTEIN VLADIMIR ; PROCTER AND GAMBLE ; ROE DONALD CARROLL ; SALLOUM DAVID S ; WISE BRANDON ELLIS ; SHERMAN FAIZ FIESAL

Assignee(s): THE PROCTER AND GAMBLE COMPANY ; PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE CO CINCINNATI

Inventor(s): (std): CARROLL ROE DONALD ; ELLIS WISE BRANDON ; VLADIMIR GARTSTEIN ; FIESAL SHERMAN FAIZ ; SHERMAN FAIZ FIESAL ; ROE DONALD CARROLL ; GARTSTEIN VLADIMIR ; WISE BRANDON ELLIS ; SALLOUM DAVID S

Inventor(s): DONALD CARROLL ROE ; BRANDON ELLIS WISE ; FAIZ FIESAL SHERMAN ; DAVID S SALLOUM

Agent(s): WILSON LUE LLP; KREMER VERONIQUE MARIE JOSEPHINE; THE PROCTER AND GAMBLE COMPANY,GLOBAL LEGAL DEPARTMENT - IP; PROCTER AND GAMBLE CO GLOBAL LEGAL DEPARTMENT IP; JOHN G; KATHLEEN Y; FONDRIEST JAMES T; CARTER KATHLEEN Y; THE PROCTER AND GAMBLE COMPANY

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

87) Family number: 71450341 (WO18185694A1) © PatBase

Title: DEVICE FOR THE ADMINISTRATION OF SUBSTANCES

Abstract: A device for administering substances to be administered comprises a vibrating element containing at least one dispensing duct, a vibration generator configured to vibrate the vibrating element, and an outlet element, comprising a plurality of holes, arranged for the passage of the substance to be administered during administration. The dispensing duct defines a tank adapted to completely contain the substance to be administered, and is configured to let it escape from an opening facing said outlet element.

Classifications:
International (IPC 8-9): A61F9/00 A61M11/00 A61M15/00 B05B17/00 B05B17/06 (Advanced/Invention)
CPC: A61M11/005 A61F9/0008 A61M15/0028 A61M15/0085 A61M2205/8206 A61M2210/0612 B05B17/063 B05B17/0646

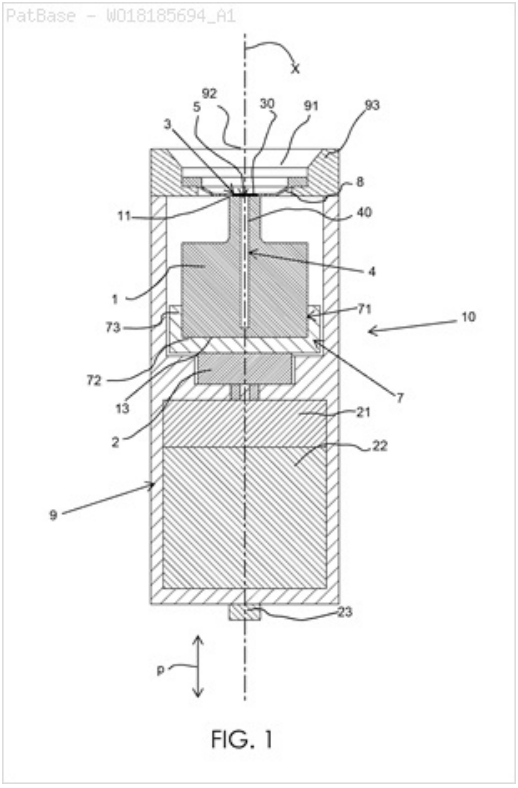


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
IT201700038005 A1	20181006	IT201710000038005	20170406
WO18185694 A1	20181011	WO2018IB52353	20180405

Priority:

IT201710000038005 20170406

Probable Assignee: ZODIAK S R L

Assignee(s): (std): ZODIAK S R L

Assignee(s): ZODIAK SRL

Inventor(s): (std): RIVETTI ALBERTO LUIGI ; TETI LUIGI

Agent(s): GAMBA ALESSANDRO ET AL

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

88) Family number: 11455354 (WO9603216A1)

Title: PROCESS AND DEVICE FOR GENERATING AND METERING A POWDERED AEROSOL

Abstract: In short-time plasma vaporisation the powder to be vaporised must be continuously introduced into a plasma burner with no agglomerations. It is especially for this purpose that, in the invention, the powder (8) is in direct contact with the wall of a container (6) connected to an ultrasonic source or in direct contact with the ultrasonic oscillation system and the powder (8) in the container (6) is whirled up by the effect of the ultrasound and taken up by a vehicle gas. In the relevant device with a powder container and an ultrasound converter which whirls the powder up, the container (6) has at least one inlet pipe (10) and an outlet pipe (12) for the vehicle gas to take up the whirled up powder (8).

Classifications:
International (IPC 8-9): B05B17/06 B05B5/16
B05B7/14 (Advanced/Invention);
B05B7/16 (Advanced/Non-invention);
B05B5/00 (Core/Invention)
International (IPC 1-7): A61M11/0 A61M15/0 B01F11/2 B01F3/6 B05B17/06 B05B17/06 B05B5/16 B05B7/14
CPC: B05B7/1445 B05B7/1606 B05B17/0615
European: B05B17/06B1 B05B7/14A8B L05B7/16B

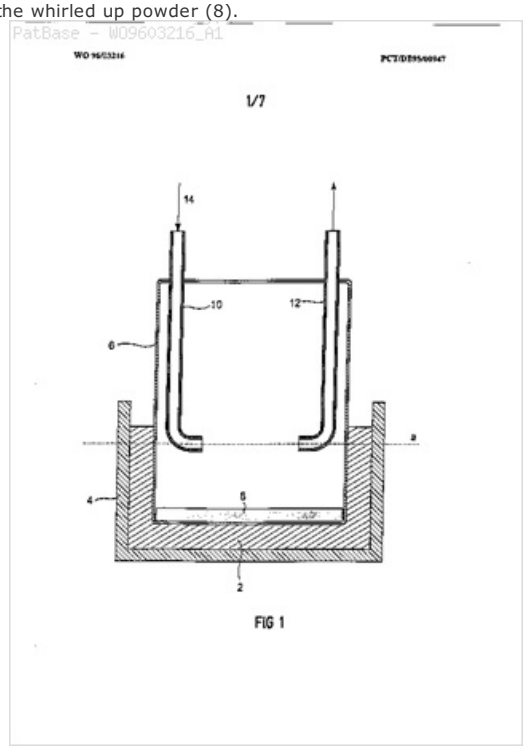


FIG 1

Family:

Publication number	Publication date	Application number	Application date
DE4426264 A1	19960201	DE19944426264	19940725
DE59504997 D1	19990311	DE19955004997	19950719
EP0772495 A1	19970514	EP19950925703	19950719
EP0772495 B1	19990127	EP19950925703	19950719
WO9603216 A1	19960208	WO1995DE00947	19950719

Priority:

DE19944426264 19940725 DE19944426264 19940725 DE19955004997 19950719
WO1995DE00947 19950719 WO1995DE00947 19950719

Probable Assignee: SIEMENS AG

Assignee(s): (std): LINS GUENTER ; MICHELT BERTHOLD ; MOLL HELMUT ; SEEBOECK ROBERT ; SIEMENS AG ; VERLEGER JOBST

Assignee(s): SIEMENS AKTIENGESELLSCHAFT

Inventor(s): (std): BERTHOLD MICHELT DIPL PHYS ; LINS GUENTER ; LINS GUENTER DIPL PHYS DR ; MICHELT BERTHOLD ; MOLL HELMUT ; MOLL HELMUT DIPL ING ; SEEBOECK ROBERT DIPL PHYS DR ; VERLEGER JOBST ; SEEBOECK ROBERT

Inventor(s): SEEBOECK ROBERT D 91088 BUBENREUTH DE ; VERLEGER JOBST 91052 ERLANGEN DE ; VERLEGER JOBST D 91052 ERLANGEN DE ; MOLL HELMUT DIPL ING FH 91058 ERLANGEN DE ; MOLL HELMUT D 91058 ERLANGEN DE ; MICHELT BERTHOLD D 90762 FUERTH DE ; LINS GUENTER D 91056 ERLANGEN DE

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

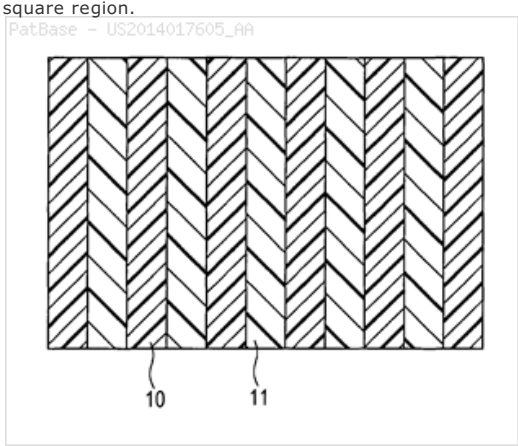
89) Family number: 52166362 (US2014017605A)

Title: FILM, APPARATUS HAVING FILM, ELECTROPHOTOGRAPHIC PHOTOSENSITIVE MEMBER, PROCESS CARTRIDGE, AND ELECTROPHOTOGRAPHIC APPARATUS

Abstract: There is provided a film having resistance to an increase in the friction coefficient resulting from wearing. The film has a first portion having hardness of 0.01 to 3 GPa and a second portion. The hardness ratio of the second portion to the first portion is of 1.2 to 30. The first portion and the second portion form a first surface portion and a second surface region

of the film, respectively. Each of the first portion and the second portion extends to a depth of 75 percent or more of the thickness of the film. In a 1 mmx1 mm square region disposed on an arbitrary position of the surface of the film, the second surface region accounts for 10 percent to 80 percent by area of the square region, and the first surface region and the second surface region account for 50 percent or more by area of the square region.

Classifications:
International (IPC 8-9): B05D3/06 B05D5/00 B32B7/02 C08J5/18 C08J7/00 G03G15/00 G03G21/10 G03G5/05 G03G5/147 (Advanced/Invention)
CPC: G03G5/14708 G03G5/14713 G03G5/14795 G03G21/0094 G03G15/75 G03G5/0546 G03G5/0592 G03G5/0596 G03G5/14734 G03G5/14791 Y10T428/24983
European: G03G15/75
US: 399/111 399/159 428/217 430/56



Family:

Publication number	Publication date	Application number	Application date
CN103476842 A	20131225	CN201280017969	20120405
DE602012010764 D1	20151029	DE201260010764T	20120405
EP2697292 A1	20140219	EP20120771279	20120405
EP2697292 A4	20141126	EP20120771279	20120405
EP2697292 B1	20150916	EP20120771279	20120405
JP2013213996 A2	20131017	JP20120085035	20120403
JP2013214064 A2	20131017	JP20130057564	20130321
JP5236095 B1	20130717	JP20120085035	20120403
KR101505353 B1	20150323	KR20137029139	20120405
KR20130137242 A	20131216	KR20137029139	20120405
US2014017605 AA	20140116	US20120007623	20120405
WO12141230 A1	20121018	WO2012JP59953	20120405

Priority:

JP20110088442 20110412 JP20110094158 20110420 JP20110110620 20110517
JP20120053581 20120309 JP20120085035 20120403 EP20120771279 20120405
WO2012JP59953 20120405 JP20130057564 20130321

Probable Assignee: CANON INC

Assignee(s): (std): CANON KK ; KIKUCHI TOSHIHIRO ; MIYAUCHI YOHEI ; SHIRAYAMA KAZUHISA ; YOSHIMURA KIMIHIRO ; CANON INC

Assignee(s): CANON KABUSHIKI KAISHA

Inventor(s): (std): SHIROYAMA KAZUHISA ; KIKUCHI NORIHIRO ; SHIRAYAMA KAZUHISA ; YOSHIMURA KIMIHIRO ; KIKUCHI TOSHIHIRO ; MIYAUCHI YOHEI

Agent(s): TBK; ABE TAKUMA 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 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

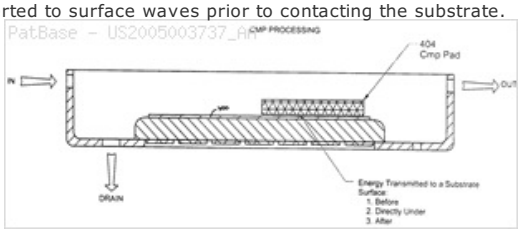
90) Family number: 31414365 (US2005003737A)

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Title: METHOD AND APPARATUS TO PROCESS SUBSTRATES WITH MEGASONIC ENERGY

Abstract: A variety of techniques may be employed, alone or in combination, to enhance contact between a processed substrate and applied megasonic energy. In accordance with one embodiment of the new invention, the vibration plate is brought into intimate contact with one surface of the substrate, while cleaning or processing fluid contacts the other. In accordance with an alternative embodiment of the present invention, a reflecting surface may be provided to cause emanated energy to be reflected back into the near field and make it more uniform. In accordance with another alternative embodiment of the present invention, energy may be transferred across a substrate bounded on both sides by liquid with incidence of megasonic energy that is either normal to the substrate surface or within a critical range of incident angles. In yet another embodiment, generated dilatational waves may be converted to surface waves prior to contacting the substrate.

Classifications:
International (IPC 8-9): B05C3/00 B08B3/12 B24B1/00 B24B31/00 B24B49/00 (Advanced/Invention); H01L (Subclass/Invention)
International (IPC 1-7): B05C3/00 B08B3/12 B24B49/00
CPC: Y10S451/91 H01L21/67046 A61B8/546 B08B3/12 H01L21/67051 H01L21/67057
European: A61B8/54D B08B3/12 H01L21/67S2D4W2 H01L21/67S2D4W4 H01L21/67S2D4W6
US: 451/104 451/104S 451/36 451/36P 451/37 451/5 451/56 451/56P 451/5P 451/910



Family:

Publication number	Publication date	Application number	Application date
CN1822905 A	20060823	CN200480020178	20040604
EP1635960 A2	20060322	EP20040754302	20040604
US2005003737 AA	20050106	US20040861793	20040604

US2007197138 AA	20070823	US20070698551	20070126
US2007207707 AA	20070906	US20070698962	20070126
US2007207710 AA	20070906	US20070657428	20070123
US7238085 BB	20070703	US20040861793	20040604
WO04112093 A2	20041223	WO2004US17672	20040604
WO04112093 A3	20051103	WO2004US17672	20040604

Priority:

US20030476527P 20030606 US20030476845P 20030606 US20030510054P 20031008
US20030517255P 20031103 US20030525435P 20031126 US20030528941P 20031210
US20030530194P 20031216 US20040546383P 20040220 WO2004US17672 20040604
US20040861793 20040604 US20070657428 20070123 US20070698551 20070126
US20070698962 20070126

Probable Assignee: PCT SYSTEMS INC

Assignee(s): (std): BUSNAINA AHMED A ; MARAVIOV SHARYL L ; MIRANDA HENRY R ; MONTIERTH GARRY L ; P C T SYSTEMS INC

Assignee(s): PCT SYSTEMS INC

Inventor(s): (std): MONTIERTH GARRY L ; MIRANDA HENRY R ; MARAVIOV SHARYL L ; BUSNAINA AHMED A ; MONTIERTH GARRY L MIRANDA HENR

Inventor(s): MIRANDA HENRY ; BUSNAINA AHMED ; MONTIERTH GARRY ; MARAVIOV SHARYL ; MONTIERTH GARRY L MIRANDA HENRY R MARAVIOV SHARYL

Agent(s): TOWNSEND AND TOWNSEND AND CREW LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ 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

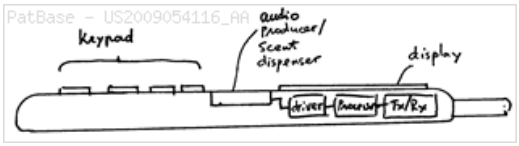
91) Family number: 42973365 (US2009054116A)

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Title: METHOD AND APPARATUS FOR SCENT DISPENSING

Abstract: A scent dispenser is integratable into a portable device, such as a mobile handset. The scent dispenser has a vibrating element configured to vibrate in an ultrasound frequency range for dispensing a scent material. Scent dispensing can be in response to an incoming signal received by a mobile handset, but scent dispensing can also be controlled by a user. The scent material is stored in a compartment having a channel with a valve and the vibrating element can be used to open the valve for replenishing the scent material when the vibration is in a low frequency range such as 1-10 Hz. The vibrating element can also be used to produce audio signals. Thus, the scent dispenser can also be integrated with a sound producing unit in a mobile electronic device.

Classifications:
International (IPC 8-9): A61L9/12 A61L9/14 B05B17/04 H04M1/21 H04M99/00 (Advanced/Invention);
A61L9/12 A61L9/14 B05B17/04 H04M1/21 H04M99/00 (Core/Invention)
CPC: A61L9/14 H04M1/21
European: A61L9/14 H04M1/21
US: 239/102.1 239/102.100S 239/4 239/4S 455/899 455/899P



Family:

Publication number	Publication date	Application number	Application date
US2009054116 AA	20090226	US20070895627	20070823
WO09024840 A1	20090226	WO2008IB00303	20080211

Priority:

US20070895627 20070823

Probable Assignee: NOKIA CORP

Assignee(s): (std): FAGER CARL MAGNUS ; HAKUNTI JUSSI ; HIRVONEN ANNIKA ; KAUHANIEMI ILPO ; LAITINEN PAULI ; MYYRYLAEINEN SAMI ; NOKIA CORP ; NAUKKARINEN SAMU ; NOKIA INC

Inventor(s): (std): NAUKKARINEN SAMU ; MYYRYLAEINEN SAMI ; HAKUNTI JUSSI ; HIRVONEN ANNIKA ; FAGER CARL MAGNUS ; LAITINEN PAULI ; KAUHANIEMI ILPO

Agent(s): WARE FRESSOLA VAN D SLUYS AND ADOLPHSON LLP; MAGUIRE FRANCIS J ET AL

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

92) Family number: 53426368 (US2013085460A)

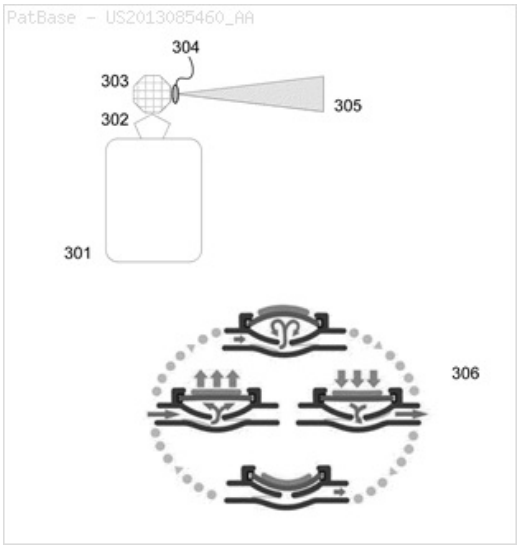
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Title: METHOD AND APPARATUS FOR LIQUID DISPENSING

Abstract: This invention provides for a method and a device for dispensing precise quantities of a predetermined volume of medicaments or other liquids onto the eye, via one or more discrete drop(s) generated by the device in a practical and innoxious way to users.

Classifications:
International (IPC 8-9): A61B3/113 A61F9/00 A61F9/007 A61M A61M1/00 A61M11/00 A61M35/00 A61M5/142 B05B9/04 B05B9/08 (Advanced/Invention);
B05B11/00 (Advanced/Non-invention);
A61B A61F A61M (Subclass/Invention)
CPC: A61F9/00 A61M11/00 A61M11/008 A61M2205/3569 A61M2205/3592 A61M2205/8231 B05B9/042 B05B9/0861 B05B9/0872 B05B11/30 A61F9/0008 A61M11/005 A61M11/007 A61M2205/50 A61M2205/8206 A61F9/0026

US: 604/290 604/298



Family:

Publication number	Publication date	Application number	Application date
IL228427 A0	20140831	IL20130228427	20130915
IL228427 A1	20180628	IL20130228427	20130915
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US9801757 BB	20171031	US20120600105	20120830

Priority:

US20090253613P 20091021 US20090256111P 20091029 US20100902575 20101012
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Probable Assignee: JOHNSON AND JOHNSON VISION CARE INC

Assignee(s): (std)**:** JOHNSON AND JOHSON VISION CARE INC ; MORELY CATIE A ; MORLEY CATIE A ; VOSS LESLIE A ; HALL GARY S ; JOHNSON AND JOHNSON VISION CARE

Assignee(s): JOHNSON AND JOHNSON VISION CARE INC

Inventor(s): (std)**:** VOSS LESLIE A ; MORLEY CATIE A ; HALL GARY S ; GARY S HALL ; CATIE A MORLEY ; MORELY CATIE A

Agent(s): REINHOLD COHN AND PARTNERS; KATO MASANOBU

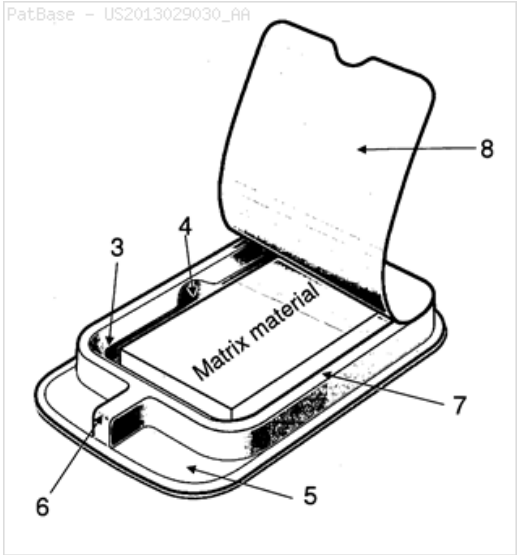
93) Family number: 49604369 (US2013029030A)

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Title: METHOD FOR PROMOTION OF HEMOSTASIS AND/OR WOUND HEALING

Abstract: The present invention relates to a matrix material comprising a pharmaceutical composition such as a matrix material with a pharmaceutical composition applied by ultrasonic spray technology on the surface. In one embodiment the pharmaceutical composition comprises thromb in. The invention further describes a method for making the matrix material which has a pharmaceutical composition coated onto the surface of the matrix material using ultrasonic spray technology. In one specific embodiment the invention also relates to the use of said matrix material for promotion of hemostasis and/or wound healing. The invention also relates to a kit-of-parts comprising a matrix with a pharmaceutical composition and a container with a peelable lid.

Classifications:
International (IPC 8-9): A61K38/43 A61K38/48 A61K47/02 A61K47/10 A61K47/42 A61K9/14 A61K9/70 A61L15/32 A61L15/42 A61L15/44 A61L24/00 A61L24/10 A61P43/00 B05D1/02 (Advanced/Invention)
CPC: A61L15/44 A61L15/325 A61L15/425 A61L24/0015 A61L24/0036 A61L24/104 A61L2300/412 A61L2300/418
European: A61L15/32A A61L15/42E A61L15/44 A61L24/00H2 A61L24/00H8 A61L24/10E K61L300/412 K61L300/418
US: 427/2.31



Family:

Publication number	Publication date	Application number	Application date
CA2790248 AA	20110922	CA20112790248	20110314
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EP2547371 A1	20130123	EP20110712462	20110314
IN07058DN2012 A	20151204	IN2012DN07058	20120813
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RU2012143739 A	20140420	RU20120143739	20110314
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WO11113436 A1	20110922	WO2011DK50082	20110314

Priority:

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Probable Assignee: FERROSAN MEDICAL DEVICES A S

Assignee(s): (std): FERROSAN MEDICAL DEVICES AS ; LARSEN KRISTIAN

Assignee(s): FERROSAN MEDICAL DEVICES A S

Inventor(s): (std): LARSEN KRISTIAN

Agent(s): GOWLING LAFLEUR HENDERSON LLP; Høiberg A/S; HOEIBERG A S

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI 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

94) Family number: 30469371 (US2004112964A)

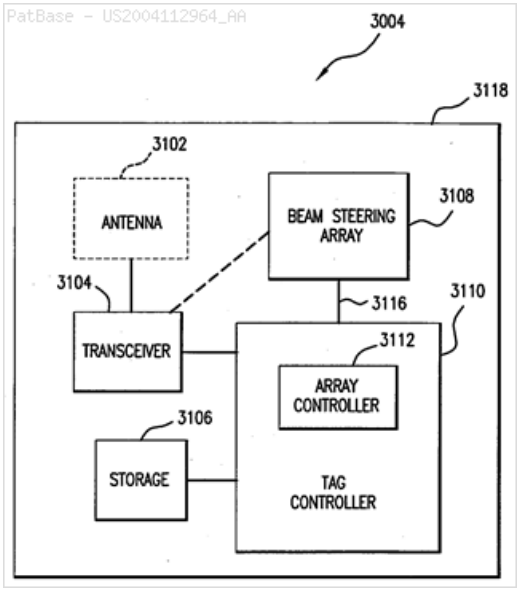
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Title: APPLICATIONS OF NANO-ENABLED LARGE AREA MACROELECTRONIC SUBSTRATES INCORPORATING NANOWIRES AND NANOWIRE COMPOSITES

Abstract: Macroelectronic substrate materials incorporating nanowires are described. These are used to provide underlying electronic elements (e.g., transistors and the like) for a variety of different applications. Methods for making the macroelectronic substrate materials are disclosed. One application is for transmission an reception of RF signals in small, lightweight sensors. Such sensors can be configured in a distributed sensor network to provide security monitoring. Furthermore, a method and apparatus for a radio frequency identification (RFID) tag is described. The RFID tag includes an antenna and a beam-steering array. The beam-steering array includes a plurality of tunable elements. A method and apparatus for an acoustic cancellation device and for an adjustable phase shifter that are enabled by nanowires are also described.

Classifications:

International (IPC 8-9): B05B7/00 B05C5/00 B82B1/00 B82B3/00 B82Y10/00 B82Y20/00 B82Y25/00 B82Y30/00 B82Y40/00 C01B31/02 G01V15/00 G02F1/133 G02F1/1343 G02F1/1345 G02F1/136 G02F1/1368 G06K19/06 G06K19/077 G06K7/00 G09F9/00 G09F9/30 G09F9/33 G09F9/35 G09G3/20 G09G3/22 G09G3/36 G11C13/02 H01L21/00 H01L21/04 H01L21/20 H01L21/208 H01L21/28 H01L21/31 H01L21/311 H01L21/322 H01L21/329 H01L21/331 H01L21/335 H01L21/336 H01L21/36 H01L21/368 H01L21/38 H01L21/77 H01L21/8234 H01L21/8238 H01L21/84 H01L23/48 H01L23/52 H01L27/092 H01L27/108 H01L27/12 H01L27/20 H01L27/32 H01L29/04 H01L29/06 H01L29/26 H01L29/40 H01L29/47 H01L29/66 H01L29/737 H01L29/76 H01L29/786 H01L29/861 H01L29/868 H01L29/872 H01L29/94 H01L31/0352 H01L31/119 H01L33/06 H01L33/26 H01L33/28 H01L33/32 H01L33/44 H01L33/50 H01L35/32 H01L35/34 H01L41/08 H01L41/087 H01L41/18 H01L41/193 H01L41/22 H01L41/24 H01L43/00 H01L51/00 H01L51/05 H01L51/50 H01Q3/00 H01Q3/02 H01Q3/12 H01Q3/26 H01Q3/36 H03H11/20 H04B1/06 H04R3/00 (Advanced/Invention);
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C01B31/00 G09G3/22 G11C13/02 H01L21/00 H01L21/02 H01L21/70 H01L23/48 H01L23/52 H01L27/108 H01L29/02 H01L29/40 H01L29/66 H01L31/115 H01L51/05 H01Q3/00 H01Q3/02 H01Q3/26 H03H11/02 H04B1/06 (Core/Invention);
G02F1/13 H01F1/00 H01L21/00 H01L21/70 H01L33/00 H01L51/00 (Core/Non-invention);
H01L (Subclass/Invention)



International (IPC 1-7): C01B31/02 G01V15/00 G02F1/1343 G02F1/136 G06K19/06 G09F9/00 G09F9/33 G09F9/35 G09G3/22 G09G3/30 G09G3/36 H01L101/00 H01L21/00 H01L21/04 H01L21/336 H01L21/38 H01L21/8234 H01L23/52 H01L27/108 H01L29/06 H01L29/76 H01L29/786 H01L29/94 H01L31/119 H01L33/00 H01Q3/36 H03H11/20 H04R3/00

CPC: H01Q3/34 G11C13/02 G11C2213/16 H01L29/0676 H01L29/42392 H01L29/775 Y10S977/742 Y10S977/762 Y10S977/781 Y10S977/789 Y10S977/938 H01L27/092 H01L27/12 H01L33/24 G11C2213/17 G11C2213/18 H01L29/04 H01L29/78684 H01L29/7869 H01L51/0052 H01L51/0541 H01L24/95 H01L27/1292 H01L2924/13091 H01F1/405 H01L2924/1306 H01L21/02603 H01L21/02628 G06K19/07749 H01L27/20 H01L29/66439 H01P1/184 Y02E10/50 H01L2924/12032 H01L2924/1305 H01L33/20 H01L2924/12041 H01L2924/12042 H01L2924/12044 H01L31/035281 H01L2924/14 H01L2224/16227 B82Y10/00 B82Y20/00 B82Y30/00 G02F1/13454 G02F2202/36 G09G3/20 G09G3/3648 G09G2300/08 G11C13/025 H01L27/1214 H01L27/1222 H01L27/283 H01L27/3262 H01L29/0665 H01L29/0673 H01L51/0048 H01L51/0512 B82Y25/00 H01F1/0072 H01L29/068 H01L29/78696 H01L33/08 H01L33/18 H01L35/26 H01L35/32 H01L41/082 H01L41/18 H01L41/316 H01L51/0012 H01L51/0504 H01L51/0508 H01L51/0545 H01L51/0595 Y02E10/549

European: B82Y10/00 B82Y20/00 B82Y25/00 B82Y30/00 G06K19/077T G09G3/20 G11C13/02 G11C13/02N H01L27/12 H01L27/12T H01L27/20 H01L29/04 H01L29/06C6 H01L29/06C6W2 H01L29/06C6W4 H01L29/06C6W6 H01L29/423D2B8G H01L29/66M6T6D H01L29/775 H01L29/786F H01L29/786G H01L29/786H H01L29/786K H01L29/786S H01L31/0352C2 H01L35/26 H01L35/32 H01L41/18 H01L41/22 H01L51/00A2F H01L51/00M4D H01L51/05B2 H01L51/05B2B H01L51/05B2B4 H01L51/05B2B6 H01P1/18E H01Q3/34 S02F1/1345E S02F202/36 S09G3/36C8 S09G300/08 S11C13/02N S11C213/16 S11C213/17 S11C213/18 T01F1/00E11 T01L27/092 T01L27/12T T01L27/28D T01L27/32M2L2 T01L29/06C6 T01L31/0352C2 T01L33/20 T01L33/24 T01L51/00M4D T01L51/00M6D T01L51/05B T01L51/05B2B6 T01L51/05D10 T01L51/30F4 Y02E10/50

US: 118/300 118/313 235/439 235/439P 235/491 235/491P 235/491S 235/492 235/492P 257/1 257/13 257/14 257/14P 257/18 257/19 257/213 257/296 257/296P 257/306 257/309 257/530 257/531 257/746 257/750 257/784 257/9 257/E21.09 257/E21.090S 257/E21.404 257/E21.703 257/E27.062 257/E27.062S 257/E27.111 257/E27.111S 257/E29.003 257/E29.003S

257/E29.081 257/E29.093 257/E29.168 257/E29.168S 257/E29.296 257/E29.297 257/E29.297S 257/E29.299 257/E29.299S 257/E31.038 257/E31.038S 257/E33.005 257/E33.006 257/E51.04 340/572.7 340/572.700S 342/372 342/374 345/204 345/87 345/92 345/92P 345/98 349/139 349/139P 438/149 438/149P 438/197 438/197P 438/197S 438/22 438/253 438/254 438/268 438/270 438/270S 438/478 438/478P 438/478S 438/479 438/486 438/49 438/551 438/551P 438/694 455/269 977/742 977/762 977/762S 977/764 977/764S 977/781 977/789 977/890 977/890S 977/938 977/938S 997/762 997/938

Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: ONED MATERIAL LLC

Assignee(s): (std): DUAN XIANGFENG ; EMPEDOCLES STEPHEN ; GOLDMAN JAY L ; NANOSYS INC ; NIU CHUNMING ; ROMANO LINDA T ; SAHI VIJENDRA ; STUMBO DAVID ; PARCE J WALLACE ; STUMBO DAVE ; BOCK LAWRENCE ; CHEN JIAN ; COMPTON RICHARD ; STUMBO DAVID P ; ONED MAT LLC

Assignee(s): N A ; US 2625 HANOVER STREET PALO ALTO CA 94304 U S ; NANOSYS INC ET AL ; ONED MATERIAL LLC ; MPEG LA LLC ; DUAN XIANFENG ; PARCE J

Inventor(s): (std): STUMBO DAVID ; EMPEDOCLES STEPHEN ; CHUNMING NIU ; XIANFENG DUAN ; DUAN XIANGFENG ; NIU CHUNMING ; ROMANO LINDA T ; CHEN JIAN ; SAHI VIJENDRA ; BOCK LAWRENCE ; PARCE J WALLACE ; GOLDMAN JAY L ; STUMBO DAVID P ; DUAN XIANFENG ; STUMBO DAVE ; LAWRENCE DUAN XIANGFENG NIU CH ; BOCK LAWRENCE A ; DUAN XIANG FENG ; NIU CHUN MING ; DUAN XIANGFENG NIU CHUNMING EMPEDOCLES STEPHEN ROM ; COMPTON RICHARD ; PARCE WALLACE J ; STEPHEN STUMBO DAVE EMPEDOCLES ; WALLACE PARCE J ; EMPEDOCLES STEPHEN A ; DAVE STUMBO ; PARCE J W ; LAWRENCE BOCK ; XIANGFENG DUAN ; JIAN CHEN ; DAVID STUMBO ; VIJENDRA SAHI ; STEPHEN EMPEDOCLES

Inventor(s): DUAN XIANGFENG NIU CHUNMING EMPEDOCLES STEPHEN ; DUAN XIANGFENG NIU CHUNMING EMPEDOCLES STEPHEN ROMANO LINDA T ; GOLDMAN JAY ; ROMANO LINDA ; STUMBO DAVE EMPEDOCLES STEPHEN ; J WALLACE PARCE ; PARCE J ; LINDA T ROMANO ; J ; JAY L GOLDMAN

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR; MARTIN PHILIP JOHN; NANOSYS INC; STERNE KESSLER GOLDSTEIN AND FOX PLLC; ANDREW L; FILLER ANDREW L; JONATHAN; GOLDSTEIN JORGE A ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR 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 YU ZA ZM ZW

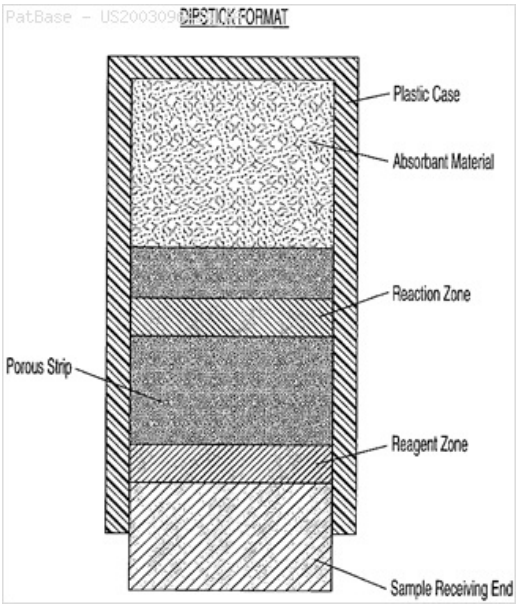
95) Family number: 28359372 (US2003096424A)

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Title: SINTERED POLYMER MEMBRANE FOR ANALYTE DETECTION DEVICE

Abstract: The present invention relates to a sintered porous polymeric material useful as membrane in an analyte detection device, such as a lateral flow device, flow through device, or a dipstick device. The invention encompasses an analyte detection device that comprises such a sintered porous polymeric material and method of analyte detection using such a device. Specific sintered porous polymeric materials encompassed by the invention are surface activated and further coated with one or more layers of a variety of materials.

Classifications:
International (IPC 8-9): A61L27/00 B01D67/00 B01D69/10 B01D71/36 B01L3/00 B05D1/04 B05D1/36 B29C71/04 B32B27/00 B32B27/06 B32B27/08 B32B3/26 C12M3/00 G01N21/00 G01N21/77 G01N33/52 G01N33/543 G01N33/558 (Advanced/Invention); C12N11/08 G01N31/22 (Advanced/Non-invention)
International (IPC 1-7): A61L27/00 B01D67/00 B01D69/10 B01D71/36 B01L3/00 B32B27/00 B32B3/26 G01N21/77
CPC: G01N33/558 G01N33/521 G01N33/54353 G01N33/54366 G01N33/54393 Y10T428/249953 Y10T428/249991 Y10T428/249992 Y10T428/249993
European: G01N33/52B G01N33/543F G01N33/543K G01N33/543M G01N33/558
US: 422/420 422/420S 422/423 422/423S 422/503 422/504 422/56 422/56S 422/57 422/57S 422/68.1 427/402 427/402S 427/458 427/458S 427/532 427/532S 428/304.4 428/304.400P 428/304.400S 428/319.3 428/319.7 428/319.9 435/180 435/287.7 435/287.700S 435/287.8 435/287.800S 435/287.9 435/287.900S 436/164 436/169 436/169S 436/17 436/170 436/170S 436/518 506/32 506/32P 506/39 506/39S 73/864.72



Family:

Publication number	Publication date	Application number	Application date
AT353707 E	20070315	AT20020797780T	20020827
AU2002332719 AA	20030318	AU20020332719	20020827
CN1281323 C	20061025	CN20028021460	20020827
CN1578702 A	20050209	CN20028021460	20020827
DE60218187 D1	20070329	DE20026018187	20020827
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DE60218187 T2	20071031	DE20026018187T	20020827
EP1427532 A1	20040616	EP20020797780	20020827
EP1427532 A4	20041229	EP20020797780	20020827
EP1427532 B1	20070214	EP20020797780	20020827
IN00623CN2004 A	20060113	IN2004CN00623	20040325
JP2005501758 T2	20050120	JP20030524727T	20020827
JP4652684 B2	20110316	JP20030524727T	20020827
US2003096424 AA	20030522	US20020158881	20020603
US2003124332 AA	20030703	US20020228944	20020828
US2006280931 AA	20061214	US20060506353	20060818
US7094464 BB	20060822	US20020228944	20020828
US7456025 BB	20081125	US20020158881	20020603
US7507469 BB	20090324	US20060506353	20060818
WO03020425 A1	20030313	WO2002US27485	20020827

Priority:

US20010315043P 20010828 US20010315044P 20010828 US20020158881 20020603
WO2002US27485 20020827 US20020228944 20020828 US20060506353 20060818

Probable Assignee: POREX CORP

Assignee(s): (std): GREENE GEORGE IV ; POREX CORP ; MAO GUOQIANG ; YAO LI

Assignee(s): SNTC HOLDING INC ; POREX SURGICAL INC ; POREX HOLDING CORP ; JONELL FILTRATION PRODUCTS INC ; KAYDON CUSTOM FILTRATION CORP ; LLC AG IND ; PURAFIL INC ; GENERAL ELECTRIC CAPITAL CORP ; GENERAL ELECTRIC CAPITAL US AGENT CORP AS ; GREENE GEORGE ; GREENE GEORGE WARREN ; GENERAL ELECTRIC CAPITAL US AGENT AS CORP ; GOLDMAN SACHS BANK USA COLLATERAL AGENT AS ; FILTRATION GROUP LLC ; AIR SYSTEM PRODUCTS LLC ; BANK OF MONTREAL COLLATERAL AGENT AS ; COPPOLA RICHARD J ; BUFFALO FILTER LLC ; CHEMCO MFG CO INC ; FILTRAN LLC

Inventor(s): (std): MAO GUOQIANG ; GREENE GEORGE WARREN IV ; YAO LI ; COPPOLA RICHARD J ; GREENE GEORGE WARREN ; GREENE GEORGE ; GUOQIANG MAO ; GEORGE GREENE ; LI YAO ; GREENE IV GEORGE ; GREENE GEORGE IV ; LI MAO GUOQIANG GREENE GEORGE ; GREENE WARREN ; YAO GEORGE

Inventor(s): MAO GUOQIANG GREENE GEORGE YAO LI ; GREENE ; IV GEORGE

Agent(s): JOHN S PRATT ESQ KILPATRICK STOCKTON LLP; JOHN; KILPATRICK STOCKTON LLP; J CLINTON; WIMBISH J CLINTON; MCDONALD JOHN K; JOHN K

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

96) Family number: 34895375 (US2010221568A)

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Title: SILICON-BASED ANTICORROSIVE AGENT

Abstract: The invention relates to an anticorrosive agent comprising zinc dust, and a second component, an organic binder and a VOC-free or VOC-compatible solvent. In order to allow the metal workpieces to be coated in a reliable and energy-saving manner at constant quality, the binder comprises silicon dioxide and alkali silicate in a molar ratio of at least 4:1. The invention also relates to a device for mixing and metering solid and liquid components of an anticorrosive agent. Said device comprises means for metering the quantities of the respective components of the anticorrosive agent, a solution tank and a mixing device. An application system for applying the anticorrosive agent to a workpiece comprises a solution tank, feeding means, at least one pressure reducer connected to the solution tank and at least one spraying device connected to the solution tank.

Classifications:

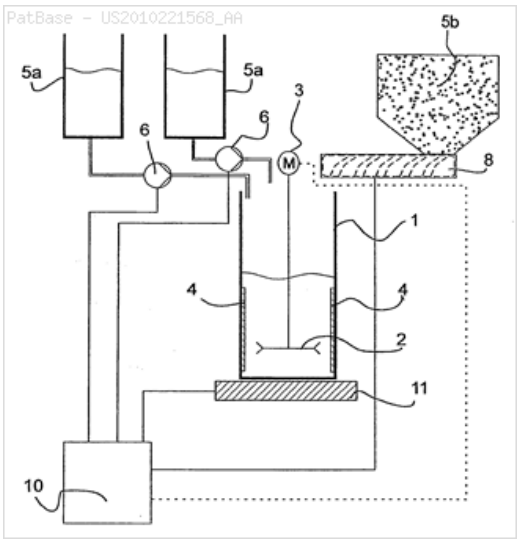
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B01F13/00 B01F15/00 B01F15/02 B01F15/04 B01F7/26 B05B12/08 B05C5/00 B05D3/00 B05D3/10 B05D3/12 B05D7/14 B32B15/04 C09D1/00 C09D133/02 C09D183/04 C09D5/00 C09D5/08 C09D5/10 C09D5/38 C09D7/02 C09D7/12 C09K3/00 C23F11/00 (Core/Invention);
B05D C09D (Subclass/Invention)

International (IPC 1-7): C09D5/08 C09D5/10

CPC: Y10T428/12111 C09D1/04 B01F3/1214 B01F7/1675 B01F7/1695 B01F7/26 B01F13/1055 B01F15/0237 B01F15/0251 B01F15/0445 B01F15/065 B01F2015/0221 B01F2015/062 B05D3/0254 B05D7/14 B05D7/51 B05D7/54 C09D5/10 C23C22/00 C23C22/60 Y10T428/31678

European: B01F13/10G B01F15/02B40H B01F15/02B40O B01F15/04H3 B01F15/06D B01F3/12B2 B01F7/16P B01F7/16S B01F7/26 B05D7/14 B05D7/51 C09D1/02 C09D1/04 C09D5/10 C23C22/00 C23C22/60 L01F15/02B8 L01F15/06B L05D3/02S L05D7/54

US: 106/14.05 106/14.050S 106/14.44 106/14.440S 106/600 106/600S 106/626 106/626S 106/635 106/635S 118/300 118/300S 252/389.31 252/389.310S 366/139 366/139S 366/145 366/145S 366/160.1 366/160.100S 366/162.1 366/162.100S 366/342 366/342S 366/343 366/343S 427/327 427/327S 427/560 427/560S 428/457 428/457S 428/560 428/560P



Family:

Publication number	Publication date	Application number	Application date
AU2007207129 AA	20070726	AU20070207129	20070116
AU2007207129 BB	20110922	AU20070207129	20070116
BRPI0706582 A2	20110329	BR2007PI06582	20070116
CA2636668 AA	20080709	CA20072636668	20070116
CN101370880 A	20090218	CN200780002492	20070116
DE102006002545 A1	20070719	DE200610002545	20060118
EA200870173 A1	20081230	EA20080070173	20070116
EP1976947 A2	20081008	EP20070711348	20070116
EP2014352 A2	20090114	EP20080016356	20070116
EP2014352 A3	20091118	EP20080016356	20070116
IL192641 A0	20090211	IL20070192641	20070116
IN02815KN2008 A	20090130	IN2008KN02815	20080710
JP2009523913 T2	20090625	JP20080550676T	20070116
KR20080085206 A	20080923	KR20087019361	20070116
US2010221568 AA	20100902	US20070161351	20070116
WO07082711 A2	20070726	WO2007EP00333	20070116
WO07082711 A3	20071011	WO2007EP00333	20070116
ZA200806173 A	20090429	ZA20080006173	20080716

Priority:

DE200610002545 20060118 EP20070711348 20070116 WO2007EP00333 20070116

Probable Assignee: EWALD DORKEN AG

Assignee(s): (std): DOERKEN EWALD AG ; KRUSE THOMAS ; RABE CHRISTIAN ; WERNER BETTINA ; REUSMANN GERHARD ; LEWOLDSEN HOLGER

Assignee(s): EWALD D AND XD6 RKEN AG ; EWALD DOERKEN AG ; EWALD DORKEN AG

Inventor(s): (std): BETTINA WERNER ; CHRISTIAN RABE ; GERHARD REUSMANN ; HOLGER LEWOLDSEN ; KRUSE THOMAS ; LEWOLDSEN HOLGER ; RABE CHRISTIAN ; REUSMANN GERHARD ; THOMAS KRUSE ; WERNER BETTINA

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; SPRUSON AND FERGUSON; BARRIGAR INTELLECTUAL PROPERTY LAW; WENZEL AND KALKOFF; BACHMAN AND LAPOINTE 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 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 MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

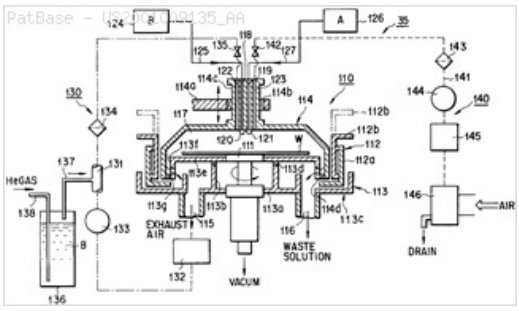
97) Family number: 28131375 (US2001009135A)

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Title: Film forming method and film forming apparatus

Abstract: A solvent of a resist solution is dropped from a solvent supply nozzle onto the surface of a semiconductor wafer held by a spin chuck. The semiconductor wafer is rotated by the spin chuck to spread the resist solution over the entire surface of the semiconductor wafer W. Simultaneously, the resist solution is dropped from a resist solution supply nozzle onto the semiconductor wafer and spread following the solvent. During the processing, the processing space is isolated from the outer atmosphere by closing a lid of a processing vessel and a sprayed solvent is supplied into the processing space. The processing space is thus filled with the mist of solvent. In the processing space supplied with the solvent, evaporation of the solvent from the resist solution is suppressed. A film of the resist solution is formed with a uniform film thickness to the edge of the semiconductor wafer W.

Classifications:
International (IPC 8-9): B05C11/08 B05D1/40 G03F7/16 H01L21/02 H01L21/027 H01L21/30 (Advanced/Invention);
B05C11/08 H01L21/027 (Advanced/Non-invention);
B05C11/08 B05D1/40 G03F7/16 H01L21/02 (Core/Invention);
H01L21/30 (Core/Non-invention)
International (IPC 1-7): B05C11/02 B05C11/08 B05C13/00 B05C5/02 B05C9/08 B05D1/40 C23C16/458 G03C5/00 G03D15/02 G03D15/06 G03D5/00 G03D5/04 G03D7/00 G03F7/16 H01L21/027 H01L21/30
CPC: B05C11/08 G03F7/162
European: G03F7/16C L05C11/08
US: 118/319 118/320 118/320S 118/52 118/52P 118/52S 118/56 118/610 118/610S 118/722 118/722S 118/724 118/724S 118/730 118/730S 396/579 396/579P 396/611 396/611S 427/240 427/425 430/272.1 430/272.100S 430/311 430/311S 430/327 430/330



Family:

Publication number	Publication date	Application number	Application date
JP3166064 B2	20010514	JP19960042079	19960205
JP3177732 B2	20010618	JP19960039026	19960201
JP9213621 A2	19970815	JP19960039026	19960201
JP9213625 A2	19970815	JP19960042079	19960205
KR19970063423 A	19970912	KR19970003015	19970131
KR970063423 A	19970912	KR19970003015	19970131
TW324834 B	19980111	TW19970101133	19970131
US2001009135 AA	20010726	US20010816389	20010326
US2001014224 AA	20010816	US20010816233	20010326
US6228561 BA	20010508	US19970791618	19970131
US6503003 BB	20030107	US20010816233	20010326
US6551400 BB	20030422	US20010816389	20010326

Priority:

JP19960039026 19960201 JP19960042079 19960205 US19970791618 19970131

US20010816389 20010326 US20010816233 20010326

Probable Assignee: TOKYO ELECTRON LTD

Assignee(s): (std): TOKYO ELECTRON CO LTD ; TOSHIMA TAKAYUKI ; TOKYO ELECTRON LTD ; YOSHIOKA KAZUTOSHI

Assignee(s): HASEBE KEIZO ; KONISHI NOBUO ; NISHIKIDO SHUUICHI ; TOKYO ELECTRON LIMITED ; TOKYO ELECTRON CO LTDJP

Inventor(s): (std): HASEBE KEIZO ; NISHIKIDO SHUUICHI ; KONISHI NOBUO ; TOSHIMA TAKAYUKI ; YOSHIOKA KAZUTOSHI ; NISHIKIDO SHUICHI ; HASE BUKEI ; YOSHIOKA TAZUTOSHI

Inventor(s): HASBE KEIZO

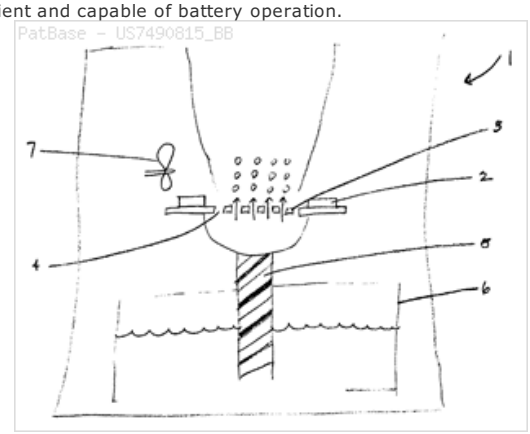
98) Family number: 34466389 (US2007108310A)

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Title: DELIVERY SYSTEM FOR DISPENSING VOLATILE MATERIALS USING AN ELECTROMECHANICAL TRANSDUCER IN COMBINATION WITH AN AIR DISTURBANCE GENERATOR

Abstract: Disclosed herein is a delivery system or apparatus for the production, evaporation or release and wide dispersion of volatile materials using an electromechanical transducer or electromechanical transducer, wherein the transition from droplets to the molecular level of the volatile material is assisted by an air disturbance generator. By increasing the rate of droplet disintegration and the emission or release of the volatile materials, higher detection of the less volatile components is achieved, resulting in higher volatile material concentration and improved hedonics, thus delivering an improved method of dispensing such volatile materials. The system is highly energy efficient and capable of battery operation.

Classifications:
International (IPC 8-9): B01F3/04 B05B1/08 B05B17/06 (Advanced/Invention);
B01F3/04 B05B1/02 B05B17/04 (Core/Invention)
CPC: B05B17/0646 Y10S261/48 Y10S261/88
European: B05B17/06B5F
US: 239/102.2 261/30 261/81 261/DIG.48 261/DIG.88



Family:

Publication number	Publication date	Application number	Application date
EP1948366 A1	20080730	EP20060821433	20061114
US2007108310 AA	20070517	US20050273461	20051114
US7490815 BB	20090217	US20050273461	20051114
WO07054920 A1	20070518	WO2006IB54243	20061114

Priority:

US20050273461 20051114 US20050273461 20051114 WO2006IB54243 20061114

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): CETTI JONATHAN R ; CETTI JONATHAN ROBERT ; DIERSING STEVEN L ; DIERSING STEVEN LOUIS ; KOPULOS CHRISTOPHER R ; KOPULOS CHRISTOPHER ROBERT ; PROCTER AND GAMBLE ; TOLLENS FERNANDO RAY ; SCHROECK STEVEN JAMES ; TOLLENS FERNADO R ; SCHROECK STEVEN J

Assignee(s): THE PROCTER AND GAMBLE COMPANY ; PROCTER AND GAMBLE CO

Inventor(s): (std): TOLLENS FERNANDO RAY ; KOPULOS CHRISTOPHER ROBERT ; CETTI JONATHAN ROBERT ; SCHROECK STEVEN JAMES ; DIERSING STEVEN LOUIS ; TOLLENS FERNADO R ; KOPULOS CHRISTOPHER R ; CETTI JONATHAN R ; SCHROECK STEVEN J ; DIERSING STEVEN L

Inventor(s): TOLLENS FERNADO RAY

Agent(s): MORELLE EVELYNE CHARLOTTE ISABELLE; THE PROCTER AND GAMBLE COMPANY, INTELLECTUAL PROPERTY DIVISION; AHN ROLL AMY I; AMY I

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 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 MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

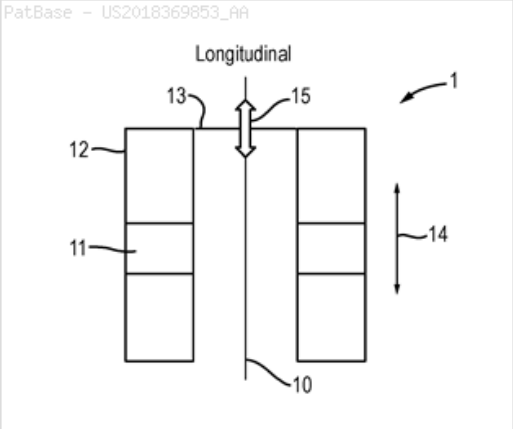
99) Family number: 60353393 (US2018369853A)

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Title: AEROSOL APPARATUS WITH IMPROVED SEPARABLE MEMBRANE

Abstract: A liquid droplet production apparatus comprising a separable perforate membrane (**44**), a means for supplying liquid to one side of the membrane, an actuator (**41**) for vibrating a membrane, so that the vibration causes liquid droplets to be ejected from the other side of the membrane, in which a magnetic force is used to connect the actuator to the membrane so that the vibration can be transmitted, wherein the magnetic force is generated by one or more arrays of magnets (**43**), eventually on a substrate (**42**), each array containing either a plurality of magnets or at least one magnet having a multiple pole configuration.

Classifications:
International (IPC 8-9): B05B17/00 B05B17/06 H01F7/02 H01F7/04 (Advanced/Invention)
CPC: H01F7/04 B05B15/18 B05B17/0646 B05B17/0653 H01F7/0252
US: 1/1 239/102.1



Family:

Publication number	Publication date	Application number	Application date
EP3317024 A1	20180509	EP20160739239	20160701
GB201511676 A0	20150819	GB20150011676	20150703
US2018369853 AA	20181227	US20160741420	20160701
WO17006091 A1	20170112	WO2016GB52002	20160701

Priority:

GB20150011676 20150703 WO2016GB52002 20160701

Probable Assignee: TTP PLC

Assignee(s): (std): TECH PARTNERSHIP PLC ; TECHNOLOGY PARTNERSHIP ; TECHNOLOGY PARTNERSHIP PLC ; TTP PLC

Inventor(s): (std): POOLEY DAVID

Agent(s): GILL JENNINGS AND EVERY LLP

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

100) Family number: 30825399 (US2004001959A)

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Title: ENHANCED BONDING LAYERS ON TITANIUM MATERIALS

Abstract: The present invention provides a dense-coverage, adherent phosphorous-based coating on the native oxide surface of a material. Disclosed phosphorous-based coatings include phosphate and organo-phosphonate coatings. The present invention also provides further derivatization of the phosphorous-based coatings to yield dense surface coverage of chemically reactive coatings and osetoblast adhesion-promoting and proliferation-promoting coatings on the native oxide surface of a titanium material.

Classifications:

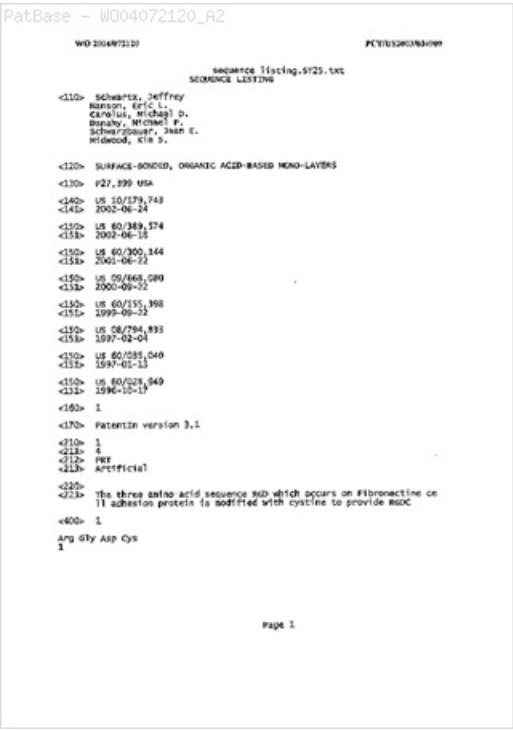
International (IPC 8-9): A61B17/04 A61F2/02 A61F2/08 A61F2/28 A61F2/32 A61F2/38 A61F2/52 A61F2/958 A61F9/00 A61J1/10 A61K9/00 A61L27/06 A61L27/28 A61L27/32 A61L29/10 A61L31/08 A61L6/083 A61M1/00 A61M25/10 A61N1/05 A61N1/362 A61P31/00 B05D1/18 B05D1/28 B05D1/38 B05D3/00 B05D3/02 B05D5/00 B05D7/00 B05D7/24 B28B11/00 B32B15/00 B32B15/04 B32B15/09 B32B17/06 B32B18/00 B32B27/06 B32B27/36 B32B3/00 B32B9/00 B44C1/17 B44C1/175 B82Y30/00 B82Y40/00 C03C17/00 C03C17/23 C04B37/00 C08F2/00 C09D1/00 C09K17/02 C23C14/06 C23C22/02 C23C22/06 C23C22/48 (Advanced/Invention);
A61L27/00 B05D7/00 B05D7/24 (Advanced/Non-invention);
A61L27/00 B05D1/18 B05D3/02 B05D7/00 B05D7/24 B32B15/04 B32B18/00 C03C17/00 C03C17/23 C04B37/00 C23C14/06 C23C22/02 C23C22/05 (Core/Invention);
A61L27/00 (Core/Non-invention);
C08F (Subclass/Invention)

International (IPC 1-7): A61F2/02 A61F2/28 B05D3/02 B05D5/00 B32B15/00 B32B15/04 B32B15/18 B32B18/00 B32B19/04 B32B9/00 C08F

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European: A61L27/32 A61L29/10R A61L31/08B4 B05D1/18C B82Y30/00 B82Y40/00 C03C17/00B C03C17/23 C04B37/00 C23C14/06 C23C22/02 C23C22/48 L05D1/28 L05D201/00 L05D202/35 L05D3/02 L05D350/63 L82T201/01 L82T201/01T

US: 106/287.29 106/287.290P 148/254 148/254S 156/230 156/230S 156/236 156/236S 424/400 424/400P 427/2.24 427/2.26 427/2.260P 427/2.27 427/2.270P 427/207.1 427/243 427/245 427/247 427/372.2 427/372.200S 427/386 427/402 427/430.1 427/430.100S 427/435 427/443.2 428/333 428/333P 428/336 428/336P 428/338 428/34.4 428/34.400P 428/428 428/428P 428/450 428/457 428/469 428/469P 428/470 428/472 428/472.1 428/472.100P 428/472.100S 428/472.2 428/472.200S 428/472.3 428/472.300S 428/480 428/624 428/626 428/629 428/632 428/632S 428/639 428/660 428/689 428/689S 428/701 428/702 428/702P 428/702S 428/704 428/704S 604/103.02 604/103.020S 604/408 604/408S 604/8 604/8S 606/231 606/231S 607/116 607/116S 607/9 607/9S 623/13.11 623/13.110S 623/16.11 623/20.14 623/20.140P 623/22.11 623/22.110S 623/23.76 623/7 623/7S



Family:

Publication number	Publication date	Application number	Application date
AU2003287466 AA	20040906	AU20030287466	20031104
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CA2515653 AA	20050810	CA20032515653	20031104
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EP1601468 A2	20051207	EP20030781705	20031104
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EP1636023 A1	20060322	EP20040756014	20040623
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JP2006517463 T2	20060727	JP20050515724T	20031104
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US2004001959 AA	20040101	US20020179743	20020624
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US2004265571 AA	20041230	US20030701591	20031104
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US2008166470 AA	20080710	US20070855847	20070914
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US2012121661 AA	20120517	US20120349367	20120112
US6146767 A	20001114	US19970794833	19970204
US6645644 BA	20031111	US20000668080	20000922
US7396594 BB	20080708	US20040876294	20040623
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US8758899 BB	20140624	US20110238900	20110921
US8993117 BB	20150331	US20120349367	20120112
WO04072120 A2	20040826	WO2003US34909	20031104
WO04072120 A3	20050127	WO2003US34909	20031104
WO05000575 A1	20050106	WO2004US20268	20040623

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US19960028949P 19961017 US19970035040P 19970113 US19970794833 19970204
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US20040876294 20040623 WO2004US20268 20040623 US20050643647P 20050113
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Probable Assignee: TRUSTEES OF PRINCETON UNIV

Assignee(s): (std): ALVATRONI MICHAEL J ; AVALTRONI MICHAEL J ; CAROLUS MICHAEL D ; DANAHY MICHAEL P ; GAWALT ELLEN ; GAWALT ELLEN S ; HANSON ERIC L ; MIDWOOD KIM S ; UNIV PRINCETON ; SCHWARTZ JEFFREY ; SCHWARZBAUER JEAN E ; SILVERMAN BRETT M ; PRINCETON UNIVERSITY

Assignee(s): THE TRUSTEES OF PRINCETON UNIVERSITY ; PRINCETON UNIV OF TRUSTEES A CORP OF NEW JERSEY ; TRUSTEES OF PRINCETON UNIV ; NATIONAL INSTITUTES OF HEALTH NIH US DEPT OF HEALT ; NATIONAL INSTITUTES OF HEALTH (NIH) US DEPT OF HEALTH AND HUMAN SERVICES (DHHS) US GOVERNMENT ; NATIONAL INSTITUTES OF HEALTH NIH US DEPT OF HEALTH AND HUMAN SERVICES DHHS US GOVERNMENT ; PRINCETON UNIV ; NATIONAL SCIENCE FOU ; NATIONAL SCIENCE FOUNDATION ; NATIONAL INST ; NATIONAL INSTITUTES OF HEALTH

Inventor(s): (std): SCHWARTZ JEFFREY ; HANSON ERIC L ; CAROLUS MICHAEL D ; DANAHY MICHAEL P ; SCHWARZBAUER JEAN E ; MIDWOOD KIM S ; JEFFREY SCHWARTZ ; SILVERMAN BRETT M ; ALVATRONI MICHAEL J ; GAWALT ELLEN S ; AVALTRONI MICHAEL J ; DANAHY MICHAEL ; GUO JING ; JEAN E SCHWARZBAUER ; MICHAEL P DANAHY ; MICHAEL D CAROLUS ; ERIC L HANSON ; KIM S MIDWOOD ; AVALTRONI MICHAEL ; GAWALT ELLEN

Inventor(s): SILVERMAN BRETT ; ALVATRONI MICHAEL

Agent(s): OYEN WIGGS GREEN AND MUTALA LLP; SYNNESTVEDT AND LECHNER LLP; SYNNESTVEDT LECHNER AND WOODBRIDGE LLP; FOX ROTHSCHILD LLP, PRINCETON PIKE CORPORATE CENTER; FOX ROTHSCHILD LLP PRINCETON PIKE CORPORATE CENTER; FOX ROTHSCHILD LLP; BUTCH PETER J; PETER J; BUTCH III PETER J; ROBERT N

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

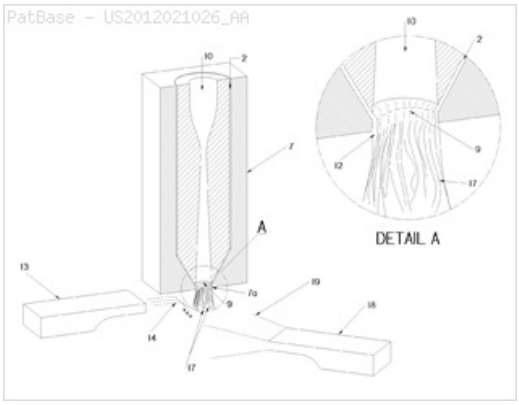
101) Family number: 50440401 (US2012021026A)

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Title: DISSOLVABLE FIBROUS WEB STRUCTURE ARTICLE COMPRISING ACTIVE AGENTS

Abstract: The personal care compositions of the present invention are in the form of an Article comprising a dissolvable fibrous web structure. The fibers of the dissolvable fibrous web structure comprise a surfactant; a water soluble polymeric structurant; and a plasticizer. Additionally the ratio of the water soluble water soluble polymeric structurant to the active agent in the fiber is 3.5 or less.

Classifications:



International (IPC 8-9): A23L A23L1/00 A23L1/22 A23L1/221 A23P1/12 A47L13/17 A47L17/04 A61K A61K31/192 A61K31/44 A61K45/00 A61K47/10 A61K47/16 A61K47/18 A61K47/26 A61K47/30 A61K47/32 A61K47/34 A61K47/36 A61K47/38 A61K47/42 A61K8/02 A61K8/18 A61K8/19 A61K8/34 A61K8/36 A61K8/365 A61K8/40 A61K8/44 A61K8/46 A61K8/60 A61K8/64 A61K8/65 A61K8/73 A61K8/81 A61K8/84 A61K8/85 A61K8/86 A61K8/96 A61K9/00 A61K9/70 A61L A61L27/50 A61L27/54 A61M31/00 A61P1/00 A61P11/00 A61P25/28 A61P3/02 A61P31/00 A61P43/00 A61Q A61Q11/00 A61Q15/00 A61Q17/04 A61Q19/00 A61Q19/04 A61Q19/10 A61Q5/00 A61Q5/02 A61Q5/06 A61Q5/10 A61Q5/12 A61Q9/02 B05D3/10 B08B9/20 B29C B29C41/24 B29C43/00 B29C43/18 B29C43/22 B29C43/24 B29C43/48 B29C47/00 B29C47/88 B29K1/00 B29K105/00 B29K29/00 B32B37/14 B32B38/10 B32B5/26 B65D85/84 C08J C08J5/18 C11D C11D1/22 C11D1/29 C11D1/75 C11D17/00 C11D17/04 C11D17/06 C11D3/22 C11D3/37 C11D3/60 D01D D01D4/02 D01D5/00 D01D5/04 D01D5/08 D01D5/42 D01F D01F1/02 D01F1/10 D01F4/00 D01F6/14 D01F6/44 D01F6/50 D01F6/88 D01F8/00 D01F9/00 D01H1/00 D04H D04H1/00 D04H1/413 D04H1/42 D04H1/4309 D04H1/4382 D04H1/728 D04H13/00 D04H3/00 D04H3/005 D04H3/007 D04H3/015 D04H3/045 D04H3/12 D04H3/14 D04H3/16 D06B1/10 D06F35/00 D06L1/00 D06L1/12 D06L1/16 D06L1/20 (Advanced/Invention);
A61F13/15 B29C43/24 B29C43/48 B29K1/00 B29K105/00 B29K29/00 B29L31/00 D01D10/02 D06C15/00 D06C15/02 (Advanced/Non-invention);
A23L A61L B29C C08J C11D D01F (Subclass/Invention)

CPC: A61K8/0208 A61K2800/10 D01F4/00 D01F6/14 D04H3/00 D04H3/009 A61Q19/10 A61F13/15707 A61F13/15739 D01D10/02 D06C15/00 D06C15/02 D06C2700/16 B29C43/006 B29C43/22 B29C43/24 B29C43/48 B29K2001/08 B29K2003/00 B29K2029/00 B29K2105/0073 D04H1/425 D04H1/4258 D04H1/4266 D01F9/00 A61K8/463 A61K8/731 A61K8/86 A61K2800/95 A61K2800/805 A61K2800/56 B29K2029/04 B29K2105/0005 B29K2105/0067 B29K2105/0094 B29K2995/0062 B29L2031/731 D10B2321/06 D10B2401/024 D10B2509/00 A61K8/0233 A61K8/345 D01D5/423 D01F6/44 D01F6/50 D01F6/88 D04H1/4382 Y10T442/2008 Y10T442/2861 B29C43/18 C08J5/18 D04H1/00 D01F8/00 D04H3/045 B29C48/05 B29C48/91 D01H1/00 A61L27/50 A61L27/54 A61L2300/602 A61K8/0204 B08B9/20 D06L1/00 A61K9/0056 A61K9/7007 A61K31/192 A61K31/44 A61K47/10 A61K47/36 D01D4/025 D04H1/728 D04H3/16 A61K9/70 A61K47/30 D01D5/00 D01D5/08 C11D17/042 C11D17/047 C11D17/041 D01F1/10 A61K8/0216 A61K8/027 A61K8/8129 A61K2800/596 A61Q5/00 A61Q19/00 B32B5/26 C11D17/0039 A61Q5/02 A61Q5/06 A61Q5/12 C11D1/22 C11D1/29 C11D1/75 C11D17/049 C11D17/06

European: A61K31/192 A61K47/10 A61K47/36 A61K8/02C A61K9/00M18B A61K9/70 A61K9/70B A61L27/50 A61L27/54 A61Q19/00 B29C43/00C B29C43/22 C11D17/04B C11D17/04B2 C11D17/04B6 D01D5/42B D01F1/10 D01F4/00 D01F6/14 D01F6/44 D01F6/50 D01F6/88 D01F9/00 D04H1/42 D04H1/4382 D04H1/728 D04H3/00 D04H3/009 D04H3/16 K61K800/10 K61L300/602 L29C43/24 L29C43/48 L29K1/08 L29K105/00G9 L29K29/00 L29K3/00

US: 1/1 156/62.4 156/62.400S 206/524.1 206/524.100P 264/165 264/165S 264/175 264/175S 264/176.1 264/176.100S 264/211 264/211.12 422/122 424/400 424/400S 424/401 424/401P 424/443 424/443P 424/443S 424/49 424/49S 424/59 424/59S 424/70.1 424/70.100S 424/70.11 424/70.110P 424/70.110S 424/76.1 424/76.100S 426/516 426/516S 426/531 426/531S 426/650 426/650S 426/658 426/658S 426/661 426/661S 426/89 426/89S 427/289 427/324 427/324S 442/164 442/60 510/108 510/108S 510/119 510/120 510/120S 510/130 510/141 510/141S 510/146 510/151 510/151S 510/218 510/235 510/235S 510/236 510/276 510/276S 510/278 510/296 510/298 510/298S 510/320 510/438 510/441 510/444 510/445 510/445S 510/456 510/513 514/357 514/569 514/772.2 514/772.200S 514/772.4 514/772.400S 514/777 514/777S 514/778 514/778S 604/500 604/500P 8/137

Family:

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AU2011272839 AA	20120105	AU20110272839	20110630
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CN105332075 B	20171124	CN201510621719	20110630
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CN105647715 B	20191025	CN201610051670	20110630
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EP2462265 A2	20120613	EP20110734211	20110630
EP2462265 B1	20170809	EP20110734211	20110630
EP2588064 A2	20130508	EP20110738874	20110630
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EP2588659 B1	20160316	EP20110748771	20110630
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MX345025 B	20170112	MX20120015189	20110630
MX345026 B	20170112	MX20120015182	20110630
MX360481 B	20181105	MX20160008860	20110630
RU2012154298 A	20140810	RU20120154298	20110630
RU2012154300 A	20140810	RU20120154300	20110630
RU2012154302 A	20140810	RU20120154302	20110630
RU2012154726 A	20140810	RU20120154726	20110630
RU2012154728 A	20140810	RU20120154728	20110630
RU2012158237 A	20140810	RU20120158237	20110630
RU2012158239 A	20140810	RU20120158239	20110630
RU2012158240 A	20140810	RU20120158240	20110630
RU2012158241 A	20140810	RU20120158241	20110630
RU2017145608 A	20190625	RU20170145608	20171225
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RU2535040 C2	20141210	RU20120158241	20110630
RU2541275 C2	20150210	RU20120158237	20110630
RU2541949 C2	20150220	RU20120158239	20110630
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RU2553294 C2	20150610	RU20120154302	20110630
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RU2555042 C2	20150710	RU20120154300	20110630
RU2607747 C1	20170110	RU20150100494	20110630
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RU2640933 C1	20180112	RU20160107789	20110630
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WO12003351 A2	20120105	WO2011US42644	20110630
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ZA201300092 A	20140625	ZA20130000092	20130104
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Priority:

US20100361129P 20100702	US20100361126P 20100702	US20100360982P 20100702
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Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): ALLEN WILLIAM MAXWELL JR ; BRENNAN JONATHAN PAUL ; DENOME FRANK WILLIAM ; CHHABRA RAJEEV ; GILBERT STEVEN RAY ; DARCY TREVOR JOHN ; CROLL BRIAN PATRICK ; DREHER ANDREAS JOSEF ; GLENN JR ROBERT WAYNE ; DZE PROKTER END GEMBL KOMPANI ; PROCTER AND GAMBLE ; JAMES MICHAEL DAVID ; GORDON GREGORY CHARLES ; HAMAD EBRAHIMPOUR ALYSSANDREA HOPE ; HEINZMAN STEPHEN WAYNE ; GLENN ROBERT WAYNE JR ; HODSON STEPHEN JOSEPH ; REYNOLDS GEOFFREY WILLIAM ; MICHAEL JOHN GERHARD ; PROCTER AND GAMBLE CO ; HAMAD EBRAMINPOUR ALYSSANDREA HOPE ; MICHAEL JOHN GERHAD ; ALLEN JR WILLIAM MAXWELL ; PROCER AND GAMBLE CO ; PROCTER AND GAMBLE COMAPNY ; SIVIK MARK ROBERT ; RICHARDS MARK RYAN ; TROKHAN PAUL DENNIS ; WEISMAN PAUL THOMAS ; SIVK MARK ROBERT

Assignee(s): THE PROCTER AND GAMBLE COMPANY ; ALLEN WILLIAM MAXWELL ; PROCTER AND GAMBLE COONE PROCTER & GAMBLE PLAZACINCINNATIOH45202US ; PROCTER AND GAMBLE CO CINCINNATI

Inventor(s): (std): GREGORY CHARLES GORDON ; FRANK WILLIAM DENOME ; GEOFFREY WILLIAM REYNOLDS ; STEPHEN JOSEPH HODSON ; PAUL DENNIS TROKHAN ; MICHAEL DAVID JAMES ; STEPHEN WAYNE HEINZMAN ; ALYSSANDREA HOPE HAMAD EBRAHIMPOUR ; MARK ROBERT SIVIK ; PAUL THOMAS WEISMAN ; MARK RYAN RICHARDS ; HAMAD EBRAHIMPOUR ALYSSANDREA ; TROKHAN PAUL ; DREHER ANDREAS ; DENOME FRANK ; GORDON GREGORY ; MICHAEL JOHN ; SIVIK MARK ; HAMAD EBRAHIMRIUR ALYSSANDREA HOPE ; SIVK MARK ROBERT ; MICHAEL JOHN GERHAD ; HAMAD EBRAMINPOUR ALYSSANDREA HOPE ; ALLEN WILLIAM MAXWELL JR ; DARCY TREVOR JOHN ; GILBERT STEVEN RAY ; BRENNAN JONATHAN PAUL ; ALLEN JR WILLIAM MAXWELL ; CHHABRA RAJEEV ; BRIAN PATRICK CROLL ; JOHN GERHARD MICHAEL ; ANDREAS JOSEF DREHER ; ALLEN WILLIAM MAXWELL ; GLENN JR ROBERT WAYNE ; HODSON STEPHEN JOSEPH ; GLENN ROBERT WAYNE JR ; TROKHAN PAUL DENNIS ; DENOME FRANK WILLIAM ; RICHARDS MARK RYAN ; HEINZMAN STEPHEN WAYNE ; HAMAD EBRAHIMPOUR ALYSSANDREA HOPE ; GORDON GREGORY CHARLES ; SIVIK MARK ROBERT ; JAMES MICHAEL DAVID ; REYNOLDS GEOFFREY WILLIAM ; WEISMAN PAUL THOMAS ; MICHAEL JOHN GERHARD ; CROLL BRIAN PATRICK ; DREHER ANDREAS JOSEF ; ROBERT WAYNE GLENN JR ; JONATHAN PAUL BRENNAN ; RAJEEV CHHABRA ; WILLIAM MAXWELL ALLEN JR ; HAMAD EBRAHIM POUR ALYSSANDREA HOPE

Inventor(s): TREVOR JOHN DARCY ; STEVEN RAY GILBERT ; GORDON GREGORI CHARLZ ; GLENN ROBERT UEJN DZHR ; RICHARDS MARK RAJAN ; KHEJNZMEN STIVEN UEJN ; DZHEJMS MAJKL DEVID ; REJNOLDS DZHEOFFRI UILYAM ; TROKKHAN POL DENNIS ; VAJSMAN POL TOMAS ; GILBERT STIVEN REJ ; DARSI TREVOR DZHON ; HODSON STEPHEN JOSEPH FRANKLIN ; GLENN ROBERT WAYNE ; EBRAHIMPOUR ALYSSANDREA HOPE ; HODSON STEPHEN JOSEPHUS ; TROKHAN PAUL DENNISUS ; GLENN ROBERT WAYNE JRUS ; RICHARDS MARK RYANUS ; HAMAD EBRAHIMPOUR ALYSSANDREA HOPEUS ; DENOME FRANK WILLIAMUS ; WEISMAN PAUL THOMASUS ; REYNOLDS GEOFFREY WILLIAMUS ; SIVIK MARK ROBERTUS ; GORDON GREGORY CHARLESUS ; JAMES MICHAEL DAVIDUS ; HEINZMAN STEPHEN WAYNEUS ; RICHARDS MARK RYAN HAMILTON ; DARCY TREVOR JOHN WEST CHESTER ; HEINZMAN STEPHEN WAYNE CINCINNATI ; GILBERT STEVEN RAY FAIRFIELD ; TROKHAN PAUL DENNIS HAMILTION ; JAMES MICHAEL DAVID CINCINNATI ; GLENN ROBERT WAYNE JR LIBERTY TOWNSHIP ; REYNOLDS GEOFFREY WILLIAM MONTGOMERY ; WEISMAN PAUL THOMAS CINCINNATI ; ROBERT WAYNE JR GLENN ; GLENN JR ; TROKHAN PAUL DENNIS HAMILTON ; DENOME FRANK WILLIAM CINCINNATI ; HAMAD EBRAHIMPOUR ALYSSANDREA HOPE CINCINNATI ; GORDON GREGORY CHARLES LOVELAND ; DREHER ANDREAS JOSEF CINCINNATI ; MICHAEL JOHN GERHARD CINCINNATI ; SIVIK MARK ROBERT MASON

Agent(s): PHILLIPS ORMONDE FITZPATRICK; MBM INTELLECTUAL PROPERTY LAW LLP; KIRBY EADES GALE BAKER; TORYS LLP; HEIDE UTE; PICKFORD JAMES LAWRENCE; MAROLLE PATRICK PIERRE PASCAL; CANONICI JEAN JACQUES; GOODIER CLAIRE LOUISE; PATENT BOUTIQUE LLP; KREMER VERONIQUE MARIE JOSEPHINE; P AND G PATENT BELGIUM UK; DEL VALLE SONIA; LIU SHEN AND ASSOCIATES; TANI AND ABE PC; SOGA MICHIHARU; NAGAI HIROSHI; RYBINOJ NA; C BRANT; ANGELA K; AMANDA;

ALEXANDER S; COOK C BRANT; MCCRARY PARKER D; BERGHAUER AMANDA HERMAN; THE PROCTER AND GAMBLE COMPANY

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

102) Family number: 29757403 (US2003216492A)

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Title: BIODEGRADABLE OR COMPOSTABLE CONTAINERS

Abstract: The present invention provides an improved method and materials for forming biodegradable containers that can hold food products in dry, damp or wet conditions and provides the biodegradable containers prepared according to the disclosed process. The containers are produced through the use of a pre-gelled starch suspension that is unique in its ability to form hydrated gels and to maintain this gel structure in the presence of many other types of materials and at low temperatures.

Classifications:
International (IPC 8-9): B65D65/46 B29C43/00 B29C49/16 B29C49/64 B29C51/00 B32B1/00 B32B21/02 B65D B65D65/40 B65D71/00 C08J5/04 C08J5/18 C08J9/08 C08K3/00 C08K7/00 C08L C08L1/02 C08L101/16 C08L3/00 C08L3/02 C08L3/04 C08L97/02 D21J D21J3/00 (Advanced/Invention);
B29C43/00 B29L22/00 C08J5/04 C08K3/00 C08L3/02 C08L97/02 (Advanced/Non-invention);
C08L3/00 (Core/Invention);
B65D C08L D21J (Subclass/Invention)
International (IPC 1-7): B05D1/00 B29C43/00 B29C51/00 B29L22/00 B32B1/00 B32B21/02 B65D65/40 B65D65/42 B65D65/46 B65D71/00 C08J3/00 C08J5/04 C08J9/12 C08K3/00 C08L1/02 C08L101/16 C08L3/00 C08L3/02 C08L89/00 C08L97/02 D21J3/00
CPC: B65D65/466 C08J9/0085 C08J9/30 C08J2303/02 C08L3/02 C08L97/02 C08L101/16 C08L2201/06 C08L2205/02 C08L2205/16 Y02A40/961 Y02W90/11 Y02W90/12 Y02W90/13 Y02W90/14 Y10T428/1348 Y10T428/3179 Y10T428/31804 Y10T428/31935 Y10T428/31982 Y10T428/31989
European: B65D65/46C C08J9/00N C08J9/30 C08L101/16 C08L3/02 C08L97/02 M08J303/02 M08L201/06 M08L205/02 M08L205/16 M08L3/02 M08L97/02
US: 106/162.5 106/162.500P 106/162.51 106/162.510S 264/101 264/101S 264/109 264/109S 264/112 264/232 264/232S 264/300 264/300S 264/319 264/319P 264/330 264/330S 264/521 264/521S 428/35.6 428/35.600P 428/481 428/481S 428/485 428/485S 428/522 428/522S 428/535 428/535S 428/537.1 428/537.100S 524/47 524/47P



Family:

Publication number	Publication date	Application number	Application date
AT361945 E	20070615	AT20030250183T	20030113
AU2003200086 AA	20030731	AU20030200086	20030113
AU2003200086 BB	20090115	AU20030200086	20030113
AU2003205095 AA	20030730	AU20030205095	20030113
AU2003205095 AH	20030730	AU20030205095	20030113
AU2009201479 AA	20090507	AU20090201479	20090415
CA2472610 AA	20040707	CA20032472610	20030113
CA2472610 C	20101026	CA20032472610	20030113
CN100402593 C	20080716	CN20031020097	20030111
CN1446735 A	20031008	CN20031020097	20030111
DE60313679 D1	20070621	DE20036013679	20030113
DE60313679 T2	20080117	DE20036013679T	20030113
DK1327663 T3	20070917	DK20030250183T	20030113
EP1327663 A1	20030716	EP20030250183	20030113
EP1327663 B1	20070509	EP20030250183	20030113
ES2286385 T3	20071201	ES20030250183T	20030113
HK1059426 A1	20090703	HK20040102363	20040331
HK1059426 A1	20040702	HK20040102363	20040331
HK1059426 A3	20040702	HK20040102363	20040331
HK1059426 B	20090703	HK20040102363	20040331
JP2003246881 A2	20030905	JP20030005975	20030114
JP2009079231 A2	20090416	JP20080320579	20081217
JP4718760 B2	20110706	JP20030005975	20030114
KR20030061675 A	20030722	KR20030001878	20030111
KR20040094404 A	20041109	KR20047010572	20030113
NZ523615 A	20040827	NZ20030523615	20030113
PT1327663 T	20070620	PT20030250183T	20030113
SG139561 A1	20080229	SG20060046536	20030113
SI1327663 T1	20071031	SI20030030874T	20030113
TW200400856 A	20040116	TW20030100585	20030113
TWI285585 B	20070821	TW20030100585	20030113
US2003216492 AA	20031120	US20030341288	20030113
US2005120915 AA	20050609	US20040977082	20041029

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US2009258172 AA	20091015	US20090367628	20090209
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US7083673 BB	20060801	US20040977082	20041029
US7967904 BB	20110628	US20090367628	20090209
WO03059756 A2	20030724	WO2003US00827	20030113
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US20020348003 20020111 US20020348003P 20020111 AU20030200086 20030113
EP20030250183 20030113 US20030341288 20030113 WO2003US00827 20030113
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US20090367628 20090209 AU20090201479 20090415

Probable Assignee: NEW ICE LTD

Assignee(s): (std): BOWDEN JOE A ; JOHNSTON CHRISTINE C ; JONHSTON CHRISTINE C ; NEW ICE LTD

Assignee(s): NEW ICE 5 ATHOL STREET DOUGLAS ISLE OF MAN UNITED KINGDOM LTD ; NEW ICE LIMITED

Inventor(s): (std): CHRISTINE C JONHSTON ; JOE A BOWDEN ; CC JOHNSTON ; JA BODON ; JOHNSTON C C ; BODON J A ; JOHNSTON CHRISTINE C ; BOWDEN JOE A ; JONHSTON CHRISTINE C

Inventor(s): BOWDEN JOE ; JOHNSTON CHRISTINE ; CHRISTINE C. JOHNSTON ; C C JOHNSTON ; J A BODON

Agent(s): DAVIES COLLISON CAVE PTY LTD; DAVIES COLLISON CAVE; FINLAYSON AND SINGLEHURST; CHINA PATENT AGENT HK LTD 22 F GREAT EAGLE CENTRE 23 HARBOUR ROAD; CHINA PATENT AGENT HK LTD; HITOSHIO AKIO; ONO MAKOTO; KAWAGUCHI YOSHIO; OSAKI KATSUMASA; SHERRY M KNOWLES ESQ KING AND SPALDING LLP; KING AND SPALDING LLP; KING AND SPALDING; STEPHANIE D; SHERRY M; KNOWLES SHERRY M

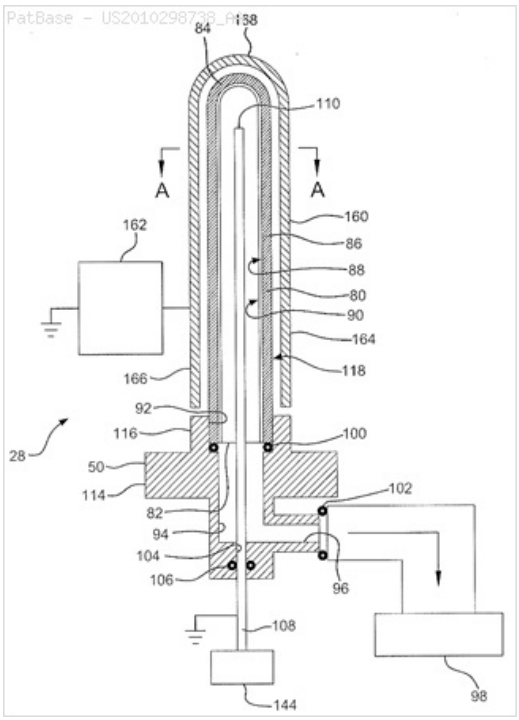
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103) Family number: 47617404 (US2010298738A)

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Title: VESSEL, COATING, INSPECTION AND PROCESSING APPARATUS

Abstract: Methods for processing a vessel, for example to provide a gas barrier or lubricity, are disclosed. First and second PECVD or other vessel processing stations or devices and a vessel holder comprising a vessel port are provided. An opening of the vessel can be seated on the vessel port. The interior surface of the seated vessel can be processed via the vessel port by the first and second processing stations or devices. Vessel barrier, lubricity and hydrophobic coatings and coated vessels, for example syringes and medical sample collection tubes are disclosed. A vessel processing system and vessel inspection apparatus and methods are also disclosed.



Classifications:

International (IPC 8-9): A01N29/06 A41D19/00 A61B5/00 A61B5/145 A61B5/15 A61B5/153 A61B5/154 A61B6/00 A61F9/00 A61J A61J1/00 A61J1/03 A61J1/05 A61J1/06 A61J1/14 A61J1/16 A61J1/20 A61J3/00 A61J7/00 A61L29/00 A61L31/02 A61L31/04 A61L31/08 A61L31/10 A61L31/14 A61L31/16 A61M15/00 A61M25/00 A61M3/00 A61M3/02 A61M35/00 A61M5/00 A61M5/178 A61M5/28 A61M5/30 A61M5/31 A61M5/315 A61M5/32 A61M5/34 B01L3/00 B05B13/02 B05B13/06 B05C11/00 B05C13/00 B05C13/02 B05D1/00 B05D3/00 B05D3/14 B05D5/08 B05D7/02 B05D7/22 B05D7/24 B23D7/04 B29C45/00 B29C45/14 B29D22/00 B32B1/02 B32B27/08 B32B9/00 B65D23/02 B65D25/14 B65D65/42 B65D77/00 B65D81/00 B65G37/00 C03C17/00 C03C17/30 C08F2/46 C08J7/00 C08J7/04 C08J7/18 C12M1/00 C23C C23C14/14 C23C14/16 C23C14/40 C23C16/00 C23C16/02 C23C16/04 C23C16/24 C23C16/30 C23C16/32 C23C16/36 C23C16/40 C23C16/42 C23C16/44 C23C16/455 C23C16/458 C23C16/50 C23C16/503 C23C16/505 C23C16/507 C23C16/511 C23C16/515 C23C16/517 C23C16/52 C23C16/54 C23C4/04 F16C33/00 F16C33/04 G01M G01M3/04 G01M3/26 G01M3/32 G01N G01N15/08 G01N21/90 G01N21/952 G01N21/954 G01N23/227 G01N23/2273 G01N3/04 G01N30/72 G01N31/00 G01N33/00 G01N33/32 G01N33/44 G01N5/02 G01N7/00 H01L H01L21/205 H01L21/469 H05H1/00 H05H1/24 (Advanced/Invention); A61J1/05 A61J1/10 A61J1/20 A61L31/08 A61M5/31 A61M5/315 A61M5/32 B05C13/00 B05C13/02 B05D7/22 B23Q7/04 B23Q7/14 B29C45/16 B29L31/00 G01N33/00 (Advanced/Non-invention); C23C16/00 C23C16/30 (Core/Invention); A61J C07D C23C G01M G01N H01L (Subclass/Invention)

International (IPC 1-7): A61J1/05 G01N21/90 G01N21/952 G01N21/954

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US: 1/1 118/500 118/500S 118/696 118/696S 118/697 118/712 118/712S 118/723.00ES 118/723.00RS 118/723E 118/723R

128/203.12 198/339.1 198/339.100S 206/438 206/461 206/524.2 206/524.3 206/524.9 220/626 250/305 264/275 422/430 422/558 427/2.1 427/2.11 427/2.3 427/2.300S 427/331 427/331S 427/402 427/445 427/445S 427/488 427/489 427/527 427/547 427/563 427/569 427/569S 427/575 427/578 427/579 427/579S 427/8 427/8S 428/216 428/34.1 428/36.7 428/447 435/283.1 435/283.100S 436/2 436/3 436/5 436/85 438/788 438/789 438/792 438/793 508/107 508/107S 600/309 600/364 600/365 600/371 600/432 600/573 600/576 600/576P 604/187 604/187P 604/192 604/199 604/218 604/225 604/230 604/230S 604/294 604/310 604/311 604/403 604/403S 604/68 604/77 73/150R 73/23.2 73/23.200S 73/38 73/40 73/865.8 73/865.800P

Family:

Publication number	Publication date	Application number	Application date
AR082615 AA	20121219	AR2011P102901	20110809
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EP2569611 B1	20181003	EP20110722664	20110512

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EP2846755 A1	20150318	EP20130723390	20130509
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EP2925903 A2	20151007	EP20130811664	20131125
EP2961858 A1	20160106	EP20140711096	20140228
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EP3222749 A1	20170927	EP20170167812	20100512
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ES2452519 T3	20140401	ES20100162757T	20100512
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IN05624DN2015 A	20160701	IN2015DN05624	20150625
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IN09578DN2011 A	20130125	IN2011DN09578	20111207
IN09646DN2011 A	20130927	IN2011DN09646	20111208
IN09844DN2012 A	20160205	IN2012DN09844	20121114
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Priority:

US20090298159P 20090125 US20090177984P 20090511 US20090177984P 20090513
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US20190504636 20190708

Probable Assignee: SI02 MEDICAL PRODUCTS INC

Assignee(s): (std): CLARK BECKY L ; FREEDMAN JONATHAN R ; FELTS JOHN T ; FERGUSON JOHN ; SAGONA PETER J ; FISK THOMAS E ; PANGBORN ROBERT J ; GIRAUD JEAN PIERRE ; HUNT BENJAMIN ; FITZPATRICK BRIAN ; KINNEY SHAWN ; RAICHE ADRIAN ; SAGONA PETER ; FREEDMAN JONATHAN ; PANGBORN ROBERT ; FISK TOM ; FELTS JOHN ; ABRAMS ROBERT ; ABRAMS ROBERT S ; CSP TECHNOLOGIES INC ; ISRAELACHVILI JACOB ; SIO2 MEDICAL PRODUCTS INC ; SIOA AND LSQUOR AND LSQUOR MEDICAL PRODUCTS INC ; CV HOLDINGS LLC ; STEVENSON ADAM ; WEIKART CHRISTOPHER ; SI02 MEDICAL PRODUCTS INC ; SIO2 MEDIKAL PRODAKTS INK ; SI02 MEDIKAL PRODAKTS INK ; SIO2 MEDIAL PRODUCTS INC

Assignee(s): TEACHERS RETIREMENT SYSTEM OF ALABAMA ; SI02 MEDICAL PRODUCTS INC AUBURN ; SIO2 MEDICAL PRODUCTS INC AUBURN ; TOTAL INNOVATIVE PACKAGING INC ; SIO2 MEDICAL PRODUCTS INC2250 RILEY STREETAUBURNAL36832US ; CV HOLDINGS ; SIOA ; CAPITOL MEDICAL DEVICES INC ; CSP TECHNOLOGIES INC960 WEST VETERANS BOULEVARDAUBURNAL36832US ; CAPITOL MEDICAL DEVICES INC960 WEST VETERANS BLVD.AUBURNAL36832US ; CV HOLDINGS LLC1030 RIVER FRONT CENTERAMSTERDAMNY12010US ; CAPITOL PLASTIC PRODUCTS LLC ; CV PARTNERS ; ABRAMS ROBERT S MR ; BELFANCE JOHN ; CAPITOL CUPS INC ; CYPRIUM INVESTORS IV LP ADMINISTRATIVE AGENT AS ; JONES JOSEPH A ; N A

Inventor(s): (std): SAGONA PETER J ; PANGBORN ROBERT J ; GIRAUD JEAN PIERRE ; JOHN FERGUSON ; JOHN T FELTS ; ROBERT J PANGBORN ; ROBERT S ABRAMS ; PETER J SAGONA ; BREAUX JASON ; BELFANCE JOHN ; CLARK BECKY L ; JONES JOSEPH A ; SAGONA PITER DZH ; PANGBORN ROBERT DZH ; FEHLTS DZHON T ; SAGONA PETER J PJ ; FELTS JOHN T JT ; ABRAMS ROBERT S RS ; PANGBORN ROBERT J RJ ; FISK THOMAS E TE ; JOSEPH A JONES ; JOHN BELFANCE ; ADAM STEVENSON ; BECKY L CLARK ; CHRISTOPHER WEIKART ; GRESHAM JAMES TROY ; LILLY BRIAN RUSSELL ; MARTIN STEVEN J ; THOMAS E FISK ; JONATHAN R FREEDMAN ; ABRAMS ROBERT S ; FELTS JOHN ; FISK TOM ; PANGBORN ROBERT ; ABRAMS ROBERT ; FREEDMAN JONATHAN ; SAGONA PETER ; WEIKART CHRISTOPHER ; RAICHE ADRIAN ; STEVENSON ADAM ; KINNEY SHAWN ; FITZPATRICK BRIAN ; HUNT BENJAMIN ; FELTS JOHN T ; FERGUSON JOHN ; FREEDMAN JONATHAN R ; FISK THOMAS E ; FISK TOMAS E ; FERGJUSON DZHON ; FRIDMAN DZHONATAN R ; WILLS MATTHEW ; ISRAELACHVILI JACOB

Inventor(s): FREEDMAN JOHATHAN R ; GIRAUD JEAN PIERREFR ; FERGUSON JOHN AUBURN ; FREEDMAN JONATHAN R AUBURN ; FISK THOMAS E GREEN VALLEY ; FELTS JOHN T ALAMEDA ; ABRAMS ROBERT S ALBANY ; JONES JOSEPH A HOOVER ; GRESHAM JAMES TROY OPELIKA ; LILLY BRIAN RUSSELL AUBURN ; FREEDMAN JONATHAN RUS ; SAGONA PETER JUS ; ABRAMS ROBERT SUS ; PANGBORN ROBERT JUS ; FERGUSON JOHNUS ; FELTS JOHN TUS ; WEIKART CHRISTOPHERUS ; FISK THOMAS EUS

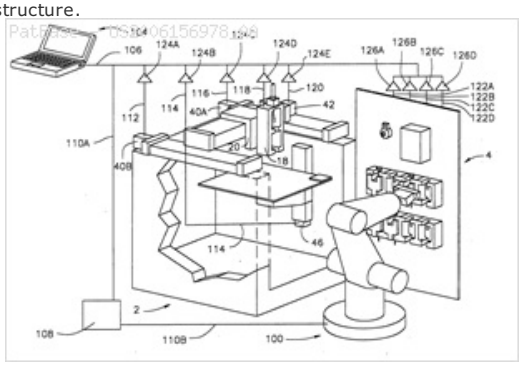
Agent(s): SPRUSON AND FERGUSON; SHELSTON IP; SHELSTON IP PTY LTD; MCCARTHY TETRAULT LLP; BERESKIN AND PARR LLP SENCRL SRL; RIDOUT AND MAYBEE LLP; MAIWALD PATENTANWALTSGESELLSCHAFT MBH; MAIWALD WALTER; MAIWALD PATENT U RECHTSANWALTSGESELLSCHAFT MBH; MAIWALD PATENTANWALTS GMBH; Maiwald Patentanwalts GmbH; POTTER CLARKSON LLP; LEHMANN MARIA ISABEL; CLT PATENT AND TRADEMARK HK LTD; REINHOLD COHN AND PARTNERS; DANIEL FEIGELSON; AXIS PATENT INT; SPRUSON AND FERGUSON ASIA PTE LTD; MCANDREWS HELD AND MALLOY LTD; GEORGE; GORNISH DAVID B; WHEELER GEORGE F; WHEELER GEORGE ET AL

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

104) Family number: 32650412 (US2006156978A)

Title: MODULAR FABRICATION SYSTEMS AND METHODS

Abstract: The present invention relates to an article fabrication system having a plurality of material deposition tools containing one or more materials useful in fabricating the article, and a material deposition device having a tool interface for receiving one of the material deposition tools. A system controller is operably connected to the material deposition device to control operation of the material deposition device. Also disclosed is a method of fabricating an article using the system of the invention and a method of fabricating a living three-dimensional structure.



Classifications:
International (IPC 8-9): A23P1/08 A23P20/20 A61F2/02 A61F2/10 A61F2/20 A61F2/28 A61L27/20 A61L27/36 A61L27/38 A61L27/44 A61L27/52 A61L27/54 B05C11/00 B22F7/02 B28B1/00 B28B1/14 B29B13/00 B29B15/00 B29C35/02 B29C39/04 B29C45/16 B29C64/106 B29C64/386 B29C67/00 B29C67/02 B33Y10/00 B33Y30/00 B33Y40/00 B33Y50/00 B33Y50/02 B33Y70/00 C04B35/64 H01L21/00 (Advanced/Invention);
B29L31/00 B33Y10/00 B33Y50/02 B33Y70/00 B33Y80/00 (Advanced/Non-invention);
A61F2/02 A61F2/10 A61F2/20 A61F2/28 B05C11/00 B22F7/02 B28B1/00 B29B13/00 B29B15/00 B29C35/02 B29C39/04 B29C67/02 C04B35/64 H01L21/00 (Core/Invention)
CPC: A23P1/086 B29C64/209 A23P20/20 A23P2020/253 B29C64/106 B33Y10/00 B33Y30/00 B33Y40/00 B33Y50/00 B33Y70/00 B33Y80/00 B29C64/386 A61L27/20 A61L27/36 A61L27/3817 A61L27/44 A61L27/52 A61L27/54 A61L2430/10 B29L2031/7532 B33Y50/02
European: B29C67/00R2
US: 1/1 101/491 118/708 264/308 264/308P 264/401 425/150 425/169 425/174 425/375 426/115 426/231 426/233 438/1 438/1P 438/3 438/3S 438/5 438/5S

Family:

Publication number	Publication date	Application number	Application date
US2006156978 AA	20060720	US20050200994	20050810
US2006160250 AA	20060720	US20050201057	20050810
US2011169193 AA	20110714	US20110052787	20110321
US2013089642 AA	20130411	US20120542114	20120705
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US2015084238 AA	20150326	US20140504375	20141001
US2016095959 AA	20160407	US20150965317	20151210
US2018303975 AA	20181025	US20180023153	20180629
US7625198 BB	20091201	US20050200994	20050810
US7939003 BB	20110510	US20050201057	20050810
US8636938 BB	20140128	US20110052787	20110321
US8877112 BB	20141104	US20140146179	20140102
US9242031 BB	20160126	US20140504375	20141001
US9723866 BB	20170808	US20120542114	20120705
US10034964 BB	20180731	US20150965317	20151210
US10406262 BB	20190910	US20180023153	20180629
WO06020685 A2	20060223	WO2005US28369	20050810
WO06020685 A3	20070531	WO2005US28369	20050810

Priority:

US20040600529P 20040811 US20050704299P 20050801 US20050200994 20050810
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US20140146179 20140102 US20140504375 20141001 US20150965317 20151210
US20180023153 20180629

Probable Assignee: CORNELL RESEARCH FOUNDATION INC

Assignee(s): (std): BONASSAR LAWRENCE ; COHEN DANIEL L ; CORNELL RES FOUNDATION INC ; LIPTON JEFFREY I ; LIPSON HOD ; CORNELL UNIVERSITY CORNELL CT FOR TECHNOLOGY ENTPR AND COMMERCIALIZATION CCTEC ; MALONE EVAN ; CORNELL UNIV CORNELL CT FOR TECHNOLOGY ENTPR AND COMMERCIALIZATION CCTEC ; UNIV CORNELL

Assignee(s): CORNELL UNIVERSITY CORNELL CENTER FOR TECHNOLOGY ENTERPRISE AND COMMERCIALIZATION CCTEC ; CORNELL UNIV CORNELL CENTER FOR TECHNOLOGY ENTERPRISE AND COMMERCIALIZATION CCTEC ; CORNELL RESEARCH FOUNDATION ; CORNELL RESEARCH FOUNDATION INC ; CORNELL UNIV

Inventor(s): (std): BONASSAR LAWRENCE ; LIPSON HOD ; COHEN DANIEL L ; MALONE EVAN ; COHEN ; LIPTON JEFFREY I

Inventor(s): COHEN DANIEL

Agent(s): MICHAEL L GOLDMAN NIXON PEABODY LLP; NIXON PEABODY LLP; LECLAIRRYAN; LECLAIRRYAN A PROFESSIONAL CORP; LECLAIRRYAN PLLC; PEPPER HAMILTON LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM 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

105) Family number: 41622419 (US2009186162A)

Title: INK FOR INKJET RECORDING, INK SET FOR INKJET RECORDING, INK MEDIA SET FOR INKJET RECORDING, INK CARTRIDGE, INKJET RECORDING METHOD, AND INKJET RECORDING APPARATUS

Abstract: To provide an ink for inkjet recording containing water, water-soluble organic solvent, water-dispersible resin, fluorochemical surfactant or derivative thereof, and coloring agent containing pigment, wherein the ink has a surface tension of 20-35 mN/m and viscosity of 5 mPa.s or more at 25 degrees centigrade, total amount of the water-dispersible resin and the coloring agent in the ink is 5-40 percent by mass, and mass ratio A/B of the water-dispersible resin A to the coloring

agent B is 0.5-4, wherein the ink is applied for a recording medium for inkjet recording containing a support containing cellulose pulp, and one or more barrier layers disposed on at least one face of the support, and wherein the barrier layer contains 30 percent by mass or more of inorganic pigment having refractive index of 1.5 or more, excluding aluminum hydrate, and 10 percent by mass or less of inorganic pigment having a refractive index of less than 1.5.

Classifications:

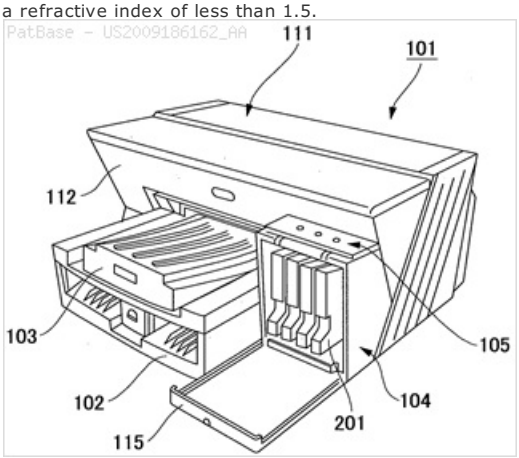
International (IPC 8-9): B05D5/00 B41J2/01 B41J2/17 B41J2/175 B41J2/21 B41M5/00 C08J7/04 C08K5/053 C08K5/06 C08K5/17 C08K5/21 C08K5/3415 C09D11/00 C09D11/10 C09D11/322 C09D11/326 C09D11/328 C09D11/38 C09D189/00 G01D11/00 H01B1/12 (Advanced/Invention);
B41M5/00 C09D11/00 C09D11/10 (Advanced/Non-invention);
B05D5/00 B41J2/01 B41J2/21 B41M5/00 C08J7/00 C08K5/00 C09D11/00 (Core/Invention)

International (IPC 1-7): B41J2/01 B41M2/01 B41M5/00 C09D11/00

CPC: B41M5/0023 C09D11/40 C09D11/322 C09D11/38

European: B41M5/00F C09D11/322 C09D11/38 C09D11/40 L41M5/00F

US: 252/511 252/521.5 252/521.6 347/100 347/100S 347/86 427/256 427/256S 427/511 427/511P 524/104 524/17 524/186 524/186S 524/215 524/366 524/366S 524/81 524/81S



Family:

Publication number	Publication date	Application number	Application date
CN101365761 A	20090211	CN200780001950	20070830
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DE602007043415 D1	20151119	DE200760043415T	20070830
EP2061846 A1	20090527	EP20070806803	20070830
EP2061846 A4	20100120	EP20070806803	20070830
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Priority:

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Probable Assignee: RICOH CO LTD

Assignee(s): (std): GOTOH AKIHIKO ; KOYANO MASAYUKI ; MATSUYAMA AKIHIKO ; MOROHOSHI NAOYA ; NAGAI KIYOFUMI ; NAMBA MICHIHIKO ; OHSHIMA TOHRU ; RICOH KK ; RICOH CO LTD

Assignee(s): RICOH CO ; RICOH COMPANY LTD

Inventor(s): (std): NAGAI KIYOFUMI ; KOYANO MASAYUKI ; OHSHIMA TOHRU ; MOROHOSHI NAOYA ; GOTOH AKIHIKO ; NAMBA MICHIHIKO ; MATSUYAMA AKIHIKO ; NANBA MICHIHIKO ; OSHIMA SUSUMU ; GOTO AKIHIKO ; MICHIHIKO NAMBA ; TOHRU OHSHIMA ; MASAYUKI KOYANO ; AKIHIKO GOTOH ; AKIHIKO MATSUYAMA ; KIYOFUMI NAGAI ; NAOYA MOROHOSHI

Inventor(s): NAGAI KIYOFUMI MACHIDA SHI TOKYO ; OHSHIMA TOHRU ATSUGI SHI KANAGAWA ; GOTOH AKIHIKO ATSUGI SHI KANAGAWA ; KOYANO MASAYUKI ZAMA SHI KANAGAWA ; MATSUYAMA AKIHIKO ISEHARA SHI KANAGAWA ; MOROHOSHI NAOYA NUMAZU SHI SHIZUOKA ; NAMBA MICHIHIKO YOKOHAMA SHI KANAGAWA

Agent(s): MEISSNER BOLTE AND PARTNER GBR; BARZ PETER ET AL; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT LLP; HIROTA KOICHI

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 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 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

106) Family number: 33510419 (WO05002321A2)

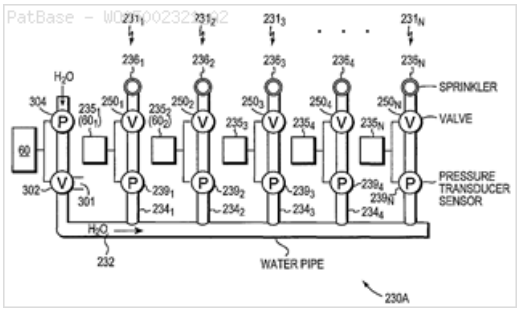
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Title: COMMUNICATION SYSTEM FOR MULTIZONE IRRIGATION

Abstract: A multizone irrigation system (230A) includes a central control unit (300) having a central control system (60) interfaced with a central valve (302) and a central communication unit (e.g., a pressure sensor 304). The central valve regulates water flow for irrigation from a water source and can lower water pressure in the pipes using output (301). The central communication unit is constructed to transmit or receive pressure based communication signals providing irrigation information. Each zone includes a sprinkler control unit (2311, 2312...231N) including a sprinkler connected to a water pipe for irrigation. Each sprinkler control unit includes a local controller (235) interfaced with a local valve (250) for controlling water flow to the sprinkler. The sprinkler control unit also includes a local communication unit (e.g., a pressure sensor 239) constructed to receive communication signals from the central communication unit and provide received irrigation information to the local controller.

Classifications:

International (IPC 8-9): A01G25/00 A01G25/02 A01G25/06 A01G25/16 A01G27/00 B05B1/14 B05B15/06 B05B15/10 B67D7/08 G01M3/04 G01M3/08 G05B11/01 G05B19/042 G05D11/00 (Advanced/Invention);
A01G A01G25/00 A01G25/02 A01G25/16 A01G27/00 B05B1/14 B05B15/00 B67D7/08 G01M3/04 G01M3/06 G05B11/01 G05B19/04 G05D11/00 (Core/Invention);
A01G (Subclass/Invention)
International (IPC 1-7): A01G25/00 A01G25/02 A01G25/06 A01G27/00 B05B1/14 B05B15/06 B05B15/10 B67D5/08 G01M3/04 G01M3/08 G05B11/01 G05D11/00
CPC: Y02A40/237 A01G25/16 G05B19/0423 G05B2219/23051 G05B2219/25187 G05B2219/2625 B05B1/00 B05B9/035 B05B12/085 B05B12/12 B05B15/622
European: A01G25/16 G05B19/042N S05B219/23051 S05B219/25187 S05B219/2625



Family:

Publication number	Publication date	Application number	Application date
WO05002321 A2	20050113	WO2004US20504	20040624
WO05002321 A3	20050303	WO2004US20504	20040624

Priority:

WO2003US20117 20030624

Probable Assignee: ARICHELL TECH INC

Assignee(s): (std): ARICHELL TECH INC ; PARSONS NATAN E ; GULER FATIH ; HERBERT KAY

Assignee(s): ARICHELL TECHNOLOGIES INC

Inventor(s): (std): PARSONS NATAN E ; GULER FATIH ; HERBERT KAY

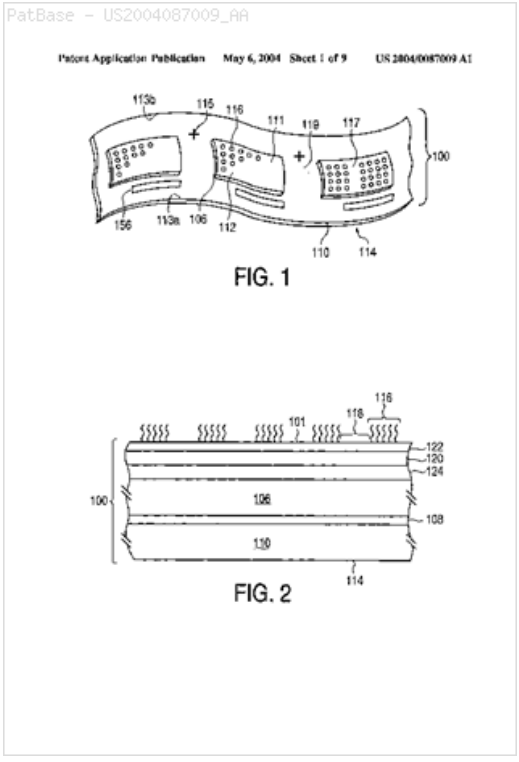
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107) Family number: 30542423 (US2004087009A)

Title: ARRAY SUBSTRATES HAVING PROTECTIVE LAYER

Abstract: Array substrates that have protective layer that includes a metal oxide layer are resistant to the conditions to which the array substrates are exposed, e.g. during their manufacture and/or use. In an embodiments, the array substrates include a reflective layer comprising a metal layer, and the protective layer of metal oxide is typically supported on the metal layer. The metal oxide layer may, in particular embodiments, include the oxide of the metal used in the reflective layer. Chromium, aluminum, titanium, and tantalum are metals of choice for the metal layer, although other metals may be used. The protective layer typically includes oxides of chromium, aluminum, titanium, or tantalum. Methods of forming the substrate using sputtering, evaporation, chemical vapor deposition, or plasma-enhanced chemical vapor deposition are taught.

Classifications:
International (IPC 8-9): B01J19/00 (Advanced/Invention);
C40B40/06 C40B40/10 C40B50/14 (Advanced/Non-invention);
B01J19/00 (Core/Invention);
C40B40/04 C40B50/14 (Core/Non-invention)
International (IPC 1-7): B01J19/00 B05D3/00 C12M1/34 C12Q1/68 G01N33/52
CPC: B82Y30/00 B01J19/0046 B01J2219/00527 B01J2219/00529 B01J2219/00605 B01J2219/00608 B01J2219/0061 B01J2219/00612 B01J2219/00621 B01J2219/00626 B01J2219/00637 B01J2219/00662 B01J2219/00675 B01J2219/00677 B01J2219/00691 B01J2219/00722 B01J2219/00725 C40B40/06 C40B40/10 C40B50/14
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US: 427/2.11 427/2.110S 435/287.2 435/287.200P



Family:

Publication number	Publication date	Application number	Application date
EP1415709 A1	20040506	EP20030256503	20031015
US2004087009 AA	20040506	US20020286090	20021031

Priority:

US20020286090 20021031

Probable Assignee:	AGILENT TECHNOLOGIES INC
Assignee(s): (std)**:**	AGILENT TECHNOLOGIES INC
Assignee(s):	SCHEMBRI CAROL T
Inventor(s): (std)**:**	SCHEMBRI CAROL T
Designated states:	DE FR GB

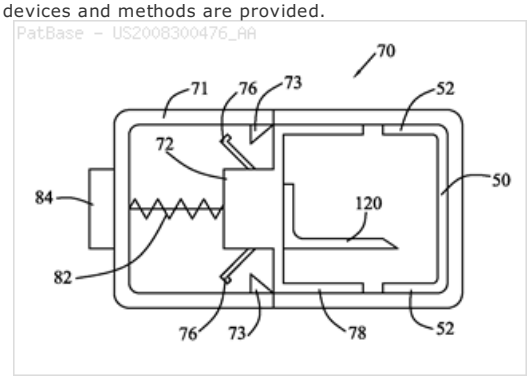
108) Family number: 42617426 (US2008300476A)

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Title: INSERTION DEVICES AND METHODS

Abstract: Devices and methods relating to analyte sensor insertion devices and methods are provided.

Classifications:



International (IPC 8-9): A61B17/34 A61B5/00 A61B5/01 A61B5/04 A61B5/05 A61B5/145 A61B5/1473 A61B5/1477 A61B5/1486 A61B5/20 A61M5/172 A61M5/20 B05D5/12 G01N27/403 G01R1/20 G06F19/00 G08B1/08 G08B23/00 H01B3/00 H01Q15/02 (Advanced/Invention);
A61B5/00 A61B5/01 A61B5/145 A61M5/20 G08B1/00 G08B23/00 (Core/Invention)
CPC: A61B5/0022 A61B5/1473 A61B5/6848 G16H40/67 A61B5/150022 A61B5/150305 A61B5/150358 A61B5/150435 A61B5/150503 A61B5/15113 A61B5/15117 A61B5/15144 A61B5/1519 A61B5/157 A61B5/15186 A61B5/15194 A61M5/1723 A61B5/0002 A61B5/743 A61B5/14542 A61B2560/0412 A61B2560/0443 A61B2562/164 A61B2562/222 A61B2562/227 A61B5/742 A61B17/3468 A61B2017/00004 A61B5/14865 A61B5/14546 A61B5/6832 A61B5/1459 A61B5/6831 A61B5/14507 A61B5/20 A61B5/0008 A61B2560/0252 G01K1/14 G01K1/16 A61B5/1477 A61B5/6849 A61B2560/0468 A61B2562/043 A61B5/14532 Y10T29/4978 A61B5/14503 A61B5/1451 A61B5/6833 A61B2562/12
European: A61B5/00B A61B5/00B3D A61B5/00B4 A61B5/145D A61B5/145D2 A61B5/145G A61B5/145P A61B5/1473 A61B5/1477 A61B5/1486B A61B5/14B2 A61B5/151S A61B5/157 A61B5/20 A61B5/68B3D1 A61B5/68D1B A61B5/68D1B2 A61B5/74D G01K1/14 G01K1/16 K61B5/00B K61B560/02F2B K61B560/04B2 K61B560/04H K61B560/04L2 K61B562/02B K61B562/04B K61B562/22D4
US: 1/1 204/403.01 204/403.010P 29/407.1 324/126 324/126S 340/573.1 340/573.100S 340/693.9 340/693.900P 343/909 343/909S 600/300 600/309 600/309P 600/309S 600/345 600/345P 600/347 600/347S 600/365 600/365P 600/365S 600/549 600/549P 604/65 702/65 702/65P

Family:

Publication number	Publication date	Application number	Application date
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Priority:

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US20160140309	20160427	US20170473560	20170329	US20170674439	20170810
US20180029853	20180709	US20180049091	20180730	US20180210965	20181205

Probable Assignee: ABBOTT DIABETES CARE INC

Assignee(s): (std): ABBOTT DIABETES CARE INC ; ABBOTT DIEBETES CARE INC ; KASTANOS KEVIN ; MAZZA JOHN C ; MURRAY CRAIG V ; NAEGELI ANDREW H ; STAFFORD GARY A ; STAFFORD GARY ASHLEY ; THERASENSE INC ; THOMAS CHRISTOPHER ALLEN ; YEE PHILIP

Inventor(s): (std): STAFFORD GARY ASHLEY ; THOMAS CHRISTOPHER ALLEN ; YEE PHILIP ; MURRAY CRAIG V ; STAFFORD GARY A ; MAZZA JOHN C ; NAEGELI ANDREW H ; KASTANOS KEVIN THOMAS ; KASTANOS KEVIN

Agent(s): JACKSON AND CO LLP; ONE LLP; OH SEONG KUN; EGBERT WALTER M III

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 TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

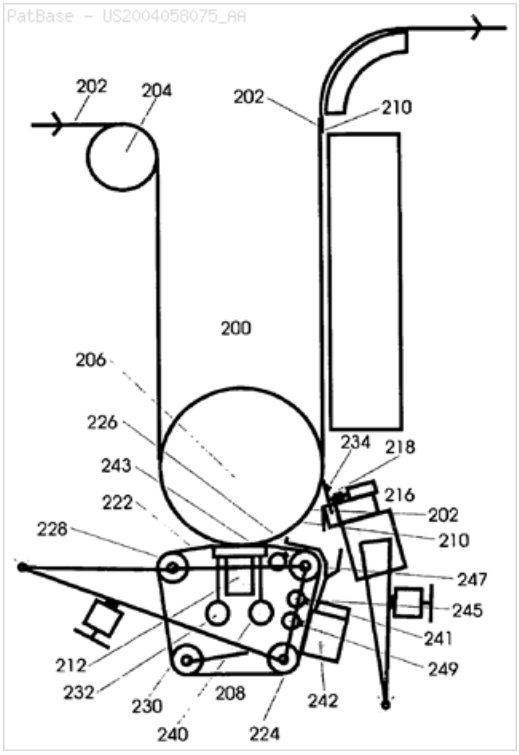
109) Family number: 28717427 (US2004058075A)

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Title: DRY END SURFACE TREATMENT USING ULTRASONIC TRANSDUCERS

Abstract: The method is for applying a coating on a paper substance. A paper moves over a set of rollers. A coating is applied with a coating applicator that has ultrasonic transducers to vibrate the coating to reduce the viscosity of the coating. A downstream blade has an ultrasonic transducer in operative engagement with the blade. The vibrating blade is applied to the paper for scraping off excessive coating from the paper.

Classifications:
International (IPC 8-9): B01D17/06 B01D29/00 B01D33/00 B01D33/04 B01D33/048 B01D33/54 B01D35/00 B01D35/06 B01J19/00 B01J19/10 B05C1/14 B05C11/04 C02F1/20 C02F1/32 C02F1/36 C02F1/48 C02F11/00 C02F11/04 D21C11/00 D21F1/18 D21H25/10 E02B1/00 E02B5/08 (Advanced/Invention); B05C3/18 C02F1/52 C02F11/12 (Advanced/Non-invention); B01D33/044 B01J19/00 B01J19/10 C02F1/34 D21F1/18 (Core/Invention)
International (IPC 1-7): B01J19/10 B03C1/00 B05C11/04 B05D3/12 C02F1/36 C02F1/48 C02F103/28 C02F11/00 D21C11/00 D21H25/10
CPC: B01J19/10 B01J2219/0877 B01J2219/089 C02F1/36 C02F1/52 C02F11/121 B01J19/008 C02F11/04 C02F11/123 C02F2103/28 C02F2301/08 C02F2303/06 C12M21/04 C12M33/20 C12M45/02 C12M45/04 Y02E50/343 B05C1/14 B05C3/18 B05C11/04 D21H25/10
European: B01J19/00K B01J19/10 B05C1/14 B05C11/04 C02F1/36 C02F11/04 C02F11/12C4 C12M21/04 C12M33/20 C12M45/02 C12M45/04 D21H25/10 L01J219/08M4 L01J219/08M8J L05C3/18 M02F1/52 M02F103/28 M02F11/12C M02F301/08 M02F303/06 Y02E50/34B
US: 118/123 118/126 118/57 162/192 162/203 162/204 162/209 162/50 210/705 210/748 210/748.02 210/748.020P 210/748.03 210/748.04 210/748.05 210/748.050P 210/780 210/783 210/785 210/786 210/805 427/355 427/355P 427/356 427/358 427/560 427/600



Family:

Publication number	Publication date	Application number	Application date
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EP1474365 A1	20041110	EP20020789120	20021128
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WO06019938 A3	20061207	WO2005US25034	20050714

Priority:

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Probable Assignee: ULTRA TECHNOLOGY EUROPE AB

Assignee(s): (std): ANNERSTEN ASA KRISTIN SCHRODER ; DAHLBERG HAKAN ; HARDIN ANJA KRISTIN ; LUBECK YLVA KRISTIN ; NILSSON BO ; SOJAKKA HEIKKI ; UFO AB ; ULTRA TECHNOLOGY EUROP AB ; ULTRA TECHNOLOGY INC ; UFO AB VAXJO

Assignee(s): ULTRA TECHNOLOGY EUROPE V AB ; ULTRA TECHNOLOGY EUROPE AB

Inventor(s): (std): HARDIN LEGAL REPRESENTATIVE AN ; LUBECK LEGAL REPRESENTATIVE YL ; ANNERSTEN LEGAL REPRESENTATIVE ; ANNERSTEN ASA KRISTIN SCHRODER ; HARDIN ANJA KRISTIN ; LUBECK YLVA KRISTIN ; BO NILSSON ; HAKAN DAHLBERG ; DAHLBERG HAKAN ; NILSSON BO ; SOJAKKA HEIKKI

Inventor(s): ANNERSTEN LEGAL REPRESENTATIVE ASA KRISTIN SCHRODER ; ANNERSTEN LEGAL REPRESENTATIVE ASA KRISTIN... ; LUBECK LEGAL REPRESENTATIVE YLVA KRISTIN ; ANNERSTEN LEGAL REPRESENTATIVE ASA KRISTIN SCHRODE ; HARDIN LEGAL REPRESENTATIVE ANJA KRISTIN ; LEGAL REPRESENTATIVE YLVA KRISTIN ; LUBECK ; LEGAL REPRESENTATIVE ANJA KRISTIN ; HARDIN ; LEGAL REPRESENTATIVE ASA KRISTIN SCHRODER ; ANNERSTEN

Agent(s): PATENT ATTORNEY SERVICES; SOEDERMAN PAEIVI KARIN LISBETH; FASTH LAW OFFICES; FASTH ROLF; ROLF

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

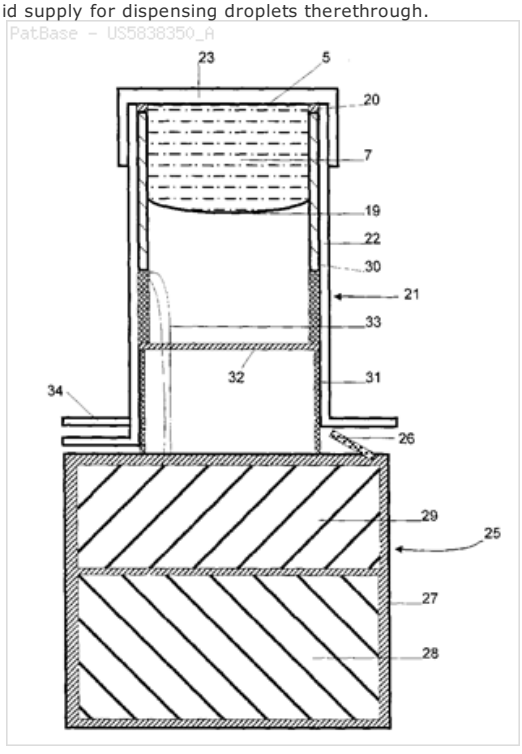
110) Family number: 8466427 (US5838350A)

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Title: APPARATUS FOR GENERATING DROPLETS OF FLUID

Abstract: PCT No. PCT/GB94/00688 Sec. 371 Date Sep. 28, 1995 Sec. 102(e) Date Sep. 28, 1995 PCT Filed Mar. 31, 1994 PCT Pub. No. WO94/22592 PCT Pub. Date Oct. 13, 1994A device for generating droplets of fluid has a fluid supply reservoir and an electromechanical transducer. Electrodes are arranged to cause expansion and contraction of the transducer in a dimension perpendicular to the applied electric field. A perforated element is coupled for movement with the expansion and contraction of the transducer and is positioned for contact with the fluid supply for dispensing droplets therethrough.

Classifications:
International (IPC 8-9): B05B17/04 B05B17/06 B05B7/04 B41J2/045 B41J2/055 (Advanced/Invention);
B05B17/04 B05B7/04 B41J2/045 B41J2/055 (Advanced/Non-invention);
B05B17/04 B41J2/045 B41J2/055 (Core/Invention);
B05B7/04 (Core/Non-invention)
International (IPC 1-7): B05B17/04 B05B17/06 B41J2/045 B41J2/055
CPC: B05B7/0408 B05B17/0646 B05B17/0684
European: B05B17/06B5F B05B17/06B7F2 L05B17/06B99B30B L05B7/04A
US: 347/1 347/68



Family:

Publication number	Publication date	Application number	Application date
AU199463818 A1	19941024	AU19940063818	19940331
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DE69421529 T2	20000217	DE19946021529T	19940331
EP0696234 A1	19960214	EP19940911256	19940331

EP0696234 B1	19991103	EP19940911256	19940331
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JP8508672 T2	19960917	JP19940521839T	19940331
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Priority:

GB19930006680 19930331 WO1994GB00688 19940331

Probable Assignee: TECHNOLOGY PARTNERSHIP PLC

Assignee(s): (std): GARDNER KEITH ; HUMBERSTONE VICTOR CAREY ; NEWCOMBE GUY CHARLES FERNLEY ; TAYLOR PETER JOHN ; TECHNOLOGY PARTNERSHIP ; TECHNOLOGY PARTNERSHIP PLC MEL ; TECHNOLOGY PARTNERSHIP PLC ; TECHNOLOGY PARTNERSHIP LTD ; TECHNOLOGY PARTNERSHIP PUBLIC

Assignee(s): TTP GROUP PLC ; THE TECHNOLOGY PARTNERSHIP PLC MELBOURN ROYSTON ; THE TECHNOLOGY PARTNERSHIP LIMITED ; THE TECHNOLOGY PARTNERSHIP PLC ; THE TECHNOLOGY PARTNERSHIP PUBLIC LIMITED COMPANY ; TECHNOLOGY PARTNERSHIP PUBLIC CO LTD ; TECHNOLOGY PARTNERSHIP PLC MELBOURN ROYSTON ; TECHNOLOGY PARTNERSHIP LIMITED THE ; TECHNOLOGY PARTNERSHIP PLC MELBOURNE SCIENCE PARK ; TECHNOLOGY PARTNERSHIP PLC CAMBRIDGE ROAD MELBOURN

Inventor(s): (std): GARDNER KEITH ; HUMBERSTONE VICTOR CAREY ; NEWCOMBE GUY ; NEWCOMBE GUY CHARLES FERNLEY ; TAYLOR PETER ; TAYLOR PETER JOHN

Inventor(s): VICTOR CAREY HUMBERSTONE ; PETER JOHN TAYLOR ; KEITH GARDNER ; GUY CHARLES FERNLEY NEWCOMBE

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

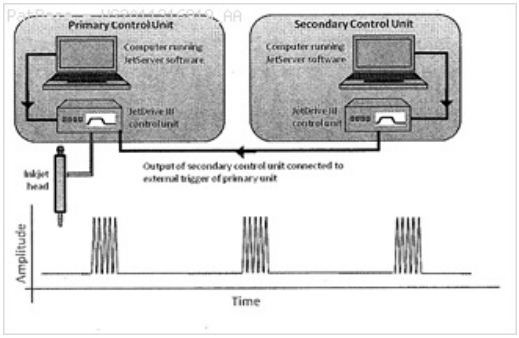
111) Family number: 50259428 (US2011316919A)

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Title: FIRST DROP DISSIMILARITY IN DROP-ON-DEMAND INKJET DEVICES AND METHODS FOR ITS CORRECTION

Abstract: A number of methods may be utilized to correct for the first drop dissimilarity in drop-on-demand inkjet devices. Various collection processes, mass calculations and timing manipulation may be utilized to correct the first drop dissimilarity problem.

Classifications:
International (IPC 8-9): A61F2/00 A61F2/82 A61F2/91 A61L27/00 A61L31/16 A61M31/00 B05B12/00 B05D1/26 B05D3/00 B41J2/01 B41J2/04 B41J2/045 B41J2/07 B41J2/12 B41J29/38 B41J3/00 B41M1/42 (Advanced/Invention);
A61F2/82 G01G9/00 (Advanced/Non-invention)
CPC: B41J2/0456 A61F2/91 B41J2/04586
European: B41J2/045D45 B41J2/045D61 K61F2/91
US: 347/14 347/14P



Family:

Publication number	Publication date	Application number	Application date
AU2011202670 AA	20120119	AU20110202670	20110603
AU2011202670 BB	20150122	AU20110202670	20110603
BRPI1102813 A2	20140218	BR2011PI02813	20110629
CA2744359 AA	20111229	CA20112744359	20110627
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EP2422982 A1	20120229	EP20110166768	20110519
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RU2011126548 A	20130110	RU20110126548	20110628
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US2011316919 AA	20111229	US20100825428	20100629

Priority:

US20100825428 20100629 EP20110166768 20110519 CA20112744359 20110627

Probable Assignee: CARDINAL HEALTH SWITZERLAND 515 GMBH

Assignee(s): (std): BALDY JR WILLIAM J ; CORDIS CORP ; FAMILI AMIN ; PALKAR SAURABH A ; KORDIS CORP

Assignee(s): KORDIS KORPOREJSHN ; CORDIS CORP BRIDGEWATER ; BALDY WILLIAM J JR ; CARDINAL HEALTH 529 LLC ; CARDINAL HEALTH SWITZERLAND 515 GMBH

Inventor(s): (std): BALDY JR WILLIAM J ; FAMILI AMIN ; PALKAR SAURABH A ; BALDY WILLIAM J JR ; PALKER SAURABH A ; AMIN FAMILI ; PALKAR SAURABKH A ; BOLDI UILL JAM DZH ML ; FALIMI AMIN

Inventor(s): SAURABH A PALKAR ; WILLIAM JJR BALDY ; FAMILI AMIN OREFIELD ; PALKAR SAURABH A AUDUBON ; BALDY WILLIAM J JR TELFORD ; WILLIAM J BALDY JR ; BALDY WILLIAM J

Agent(s): CALLINANS; GRIFFITH HACK; FISHER ADAMS KELLY CALLINANS; SIM AND MCBURNEY; GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP; BROWN GEORGE LAURENCE; BELCHER SIMON JAMES; KATO MASANOBU

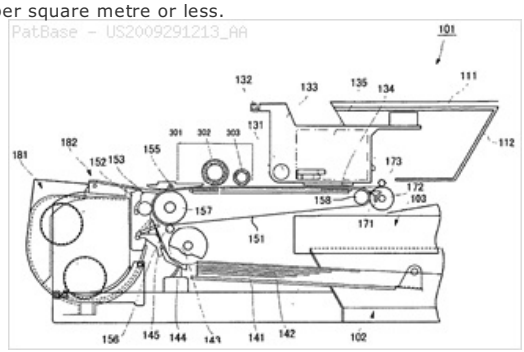
Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

112) Family number: 34447437 (US2009291213A)

Title: RECORDING MEDIA, RECORDING MEDIA-INK SET, INKJET RECORDING METHOD AND INKJET RECORDING APPARATUS

Abstract: To provide an inkjet recording method including: flying ink by application of stimulation to the ink to form an image on a recording media, wherein the recording media has at least one barrier layer of 10 m or less in thickness on at least one surface of a substrate comprising a cellulose pulp, the barrier layer contains 30 percent by mass or more of an inorganic pigment with a refraction index of 1.5 or less other than alumina, and the content of pigment with a refraction index of less than 1.5 in the barrier layer is 10 percent by mass or less, wherein the ink contains either a pigment or colored fine particle as coloring material, and a coloring material fixing constituent, and the surface tension of the ink is 25 mN/m or less, and the total amount of the ink on the recording media is 15 grams per square metre or less.

Classifications:
International (IPC 8-9): B05D1/02 B05D5/00 B41J2/01 B41M5/00 B41M5/50 B41M5/52 C09D11/00 C09D11/326 C09D11/38 C09D11/40 (Advanced/Invention);
B41J2/01 B41M5/00 B41M5/50 B41M5/52 (Advanced/Non-invention);
B05D5/00 B41J2/01 B41M5/00 B41M5/50 C09D11/00 (Core/Invention)
CPC: C09D11/38 B41M5/504 B41M5/5218 B41M2205/12 B41M2205/36 C09D11/40
European: B41M5/50B B41M5/50B2 B41M5/52C C09D11/38 C09D11/40 L41M205/12 L41M205/36
US: 347/100 347/100S 427/256 427/256P 427/355 427/421.1



Family:

Publication number	Publication date	Application number	Application date
CN101346241 A	20090114	CN200680049375	20061026
CN101346241 B	20110413	CN200680049375	20061026
DE602006041140 D1	20140522	DE200660041140T	20061026
EP1940628 A1	20080709	EP20060822849	20061026
EP1940628 A4	20091216	EP20060822849	20061026
EP1940628 B1	20140416	EP20060822849	20061026
JP2007144975 A2	20070614	JP20060043240	20060221
KR101015184 B1	20110217	KR20087012376	20061026
KR20080068887 A	20080724	KR20087012376	20061026
US2009291213 AA	20091126	US20060091758	20061026
US8142849 BB	20120327	US20060091758	20061026
WO07049806 A1	20070503	WO2006JP321929	20061026

Priority:

JP20050311255 20051026 JP20060043240 20060221 EP20060822849 20061026
WO2006JP21929 20061026 WO2006JP321929 20061026

Probable Assignee: RICOH CO LTD

Assignee(s): (std): MOROHOSHI NAOYA ; NAGAI KIYOFUMI ; OHSHIMA TOHRU ; RICOH CO LTD ; RICOH KK

Assignee(s): RICOH COMPANY LTD ; RICOH CO

Inventor(s): (std): NAGAI KIYOFUMI ; OHSHIMA TOHRU ; MOROHOSHI NAOYA ; OSHIMA SUSUMU ; TOHRU OHSHIMA ; KIYOFUMI NAGAI ; NAOYA MOROHOSHI

Inventor(s): MOROHOSHI NAOYA NUMAZU SHI ; OHSHIMA TOHRU ATSUGI SHI ; NAGAI KIYOFUMI MACHIDA SHI

Agent(s): MEISSNER BOLTE AND PARTNER GBR; BARZ PETER; MEISSNER BOLTE AND PARTNER; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT LLP

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

113) Family number: 55003440 (US2013299607A)

Title: SPRAY EJECTOR DEVICE AND METHODS OF USE

Abstract: An ejector device for ejecting droplets of fluid onto a surface includes an ejector mechanism attached to a fluid reservoir through a fluid loading plate that is configured to pierce the reservoir and channel the fluid to a rear surface of the ejector mechanism by capillary action. The ejector mechanism may have a centro-symmetric configuration with a lead free piezo actuator and may be covered by an auto-closing cover.

Classifications:
International (IPC 8-9): A61F9/00 A61M11/00 A61M15/00 A61M15/02 B05B B05B17/00 B05B17/06 (Advanced/Invention);
A61F9/00 (Advanced/Non-invention);
B05B (Subclass/Invention)
CPC: A61F9/00 A61M2210/0612 A61F9/0008 A61M15/00 A61M15/025 B05B17/0646 A61M11/00 A61M11/005 B05B17/0661 B05B17/0676
US: 1/1 239/102.2 239/302 239/328 239/589



Family:

Publication number	Publication date	Application number	Application date
AU2013249108 AA	20131024	AU20130249108	20130419
BR112014026171 A2	20170718	BR20141126171	20130419
CA2870966 AA	20141017	CA20132870966	20130419
CN104755180 A	20150701	CN201380031873	20130419
CN104755180 B	20180921	CN201380031873	20130419
CN109011046 A	20181218	CN201810953975	20130419
DE602013031619 D1	20180208	DE201360031619T	20130419
EA201491906 A1	20150331	EA20140091906	20130419
EP2838669 A2	20150225	EP20130724433	20130419
EP2838669 B1	20180103	EP20130724433	20130419
ES2663879 T3	20180417	ES20130724433T	20130419
HK1211536 A1	20160527	HK20150112463	20151217
HK1211536 B	20191018	HK20150112463	20151217
IL235281 A0	20141231	IL20130235281	20130419
IN09736DN2014 A	20160408	IN2014DN09736	20141118
JP2015514515 T2	20150521	JP20150507212T	20130419
JP6462563 B2	20190130	JP20150507212T	20130419
KR20150020542 A	20150226	KR20147032639	20130419
MX2014012702 A1	20150814	MX20140012702	20130419
SG11201406716W A1	20150330	SG20141106716	20130419
US2013299607 AA	20131114	US20130866783	20130419
US2017136484 AA	20170518	US20160197033	20160629
WO13158967 A2	20131024	WO2013US37326	20130419
WO13158967 A3	20131212	WO2013US37326	20130419

Priority:

US20120636559P 20120420 US20120636565P 20120420 US20120643150P 20120504
US20120722611P 20121105 US20120722616P 20121105 CN201380031873 20130419
EP20130724433 20130419 US20130866783 20130419 WO2013US37326 20130419
US20160197033 20160629

Probable Assignee: EYENOVIA INC

Assignee(s): (std): CORINTHIAM OPHTHALMIC INC ; CORINTHIAN OPHTHALMIC INC ; FAULKS NATHAN ; DITROLIO MATTHEW ; EYENOVIA INC ; GERMINARION LOUIS THOMAS ; LYNCH IYAM ; WILKERSON JONATHAN RYAN ; GRUBE KRIS ; LEATH JAMES THORNHILL ; HUNTER CHARLES ERIC ; JOSHUA RICHARD BROWN ; NATHAN R FAULKS ; J SID CLEMENTS ; BROWN JOSHUA RICHARD

Assignee(s): CLEMENTS J SID ; EYENOVIA INC400 - 2711 CENTERVILLE ROADWILMINGTONDE19808US ; GERMINARIO LOUIS THOMAS ; FAULKS NATHAN R ; EYENOVIA INC WILMINGTON

Inventor(s): (std): HUNTER CHARLES ERIC ; LYNCH IYAM ; FAULKS NATHAN ; LEATH JAMES THORNHILL ; CLEMENTS J SID ; WILKERSON JONATHAN RYAN ; GERMINARIO LOUIS THOMAS ; GRUBE KRIS ; BROWN JOSHUA RICHARD ; DITROLIO MATTHEW ; FAULKS NATHAN R ; LYNCH LYAM ; JONATHAN RYAN WILKERSON ; IYAM LYNCH ; JOSHUA RICHARD BROWN ; JAMES THORNHILL LEATH ; NATHAN FAULKS ; KRIS GRUBE ; MATTHEW DITROLIO ; NATHAN R FAULKS ; J SID CLEMENTS ; GERMINARION LOUIS THOMAS ; GERMINARIO LOUIS THOMAS LT ; DITROLIO MATTHEW M ; LYNCH IYAM I ; CLEMENTS J SID JS ; LEATH JAMES THORNHILL JT ; BROWN JOSHUA RICHARD JR ; GRUBE KRIS K ; WILKERSON JONATHAN RYAN JR ; FAULKS NATHAN N ; HUNTER CHARLES ERIC CE

Inventor(s): WILKERSON JONATHAN RYAN TAMPA ; LYNCH LYAM TAMPA ; BROWN JOSHUA RICHARD TAMPA ; LEATH JAMES THORNHILL BURLINGTON ; FAULKS NATHAN BOONE ; GRUBE KRIS TAMPA ; DITROLIO MATTHEW TAMPA ; HUNTER CHARLES ERIC BOONE ; GERMINARIO LOUIS THOMAS TAMPA ; CLEMENTS J SID TAMPA ; GRUBE KRISUS ; GERMINARIO LOUIS THOMASUS ; LYNCH IYAMUS ; FAULKS NATHANUS ; WILKERSON JONATHAN RYANUS ; DITROLIO MATTHEWUS ; BROWN JOSHUA RICHARDUS ; CLEMENTS J SIDUS ; LEATH JAMES THORNHILLUS ; HUNTER CHARLES ERICUS ; FAULKS NATHAN RUS

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR; UEXKUELL AND STOLBERG PARTNERSCHAFT VON PATENT U RECHTSANWAELTEN MBB; UEXKUELL AND STOLBERG; CARVAJAL Y ISABEL; CLT PATENT AND TRADEMARK HK LTD; AOKI ATSUSHI; SHIMADA TETSURO; VINNOLA MILAN M ET AL

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

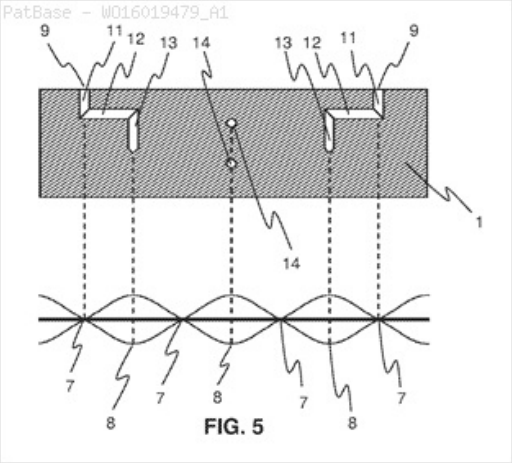
114) Family number: 61649442 (WO16019479A1)

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Title: ULTRASONIC ATOMISER

Abstract: The invention relates to an atomiser formed by a vibrating plate (1) excited by an ultrasonic transducer, which transforms a stream of liquid into a plurality of atomised drops, to be used in industrial processes, such as solid-liquid separation, which operates with large flows of liquids and produces more uniform atomised drops, where, when said plate (1) is vibrated in one of the modes thereof, at least one nodal line (7) and at least one loop (8) are produced, wherein said atomiser has: at least one perforation (9) for the inflow of liquid to be atomised, arranged on said at least one nodal line (7); at least one perforation (10) for the outflow of the atomised liquid arranged on said at least one loop (8); wherein each inlet perforation of said at least one inlet perforation (9) is connected to each outlet perforation of said at least one outlet perforation (10) by means of at least one channel (11, 12, 13) arranged inside said plate (1); and where, on the central loop (8) of the plate (1), and on the rear face (19), there is a coupling head (16) for a mechanical amplifier (15) connected to the ultrasonic transducer.

Classifications:
International (IPC 8-9): B05B1/14 B05B17/06 (Advanced/Invention)
CPC: B05B1/14 B05B17/06



Family:

Publication number	Publication date	Application number	Application date
CL2014002079 A1	20160916	CL20140002079	20140806
CL56001 B	20180522	CL20140002079	20140806
WO16019479 A1	20160211	WO2015CL50030	20150806

Priority:

CL20140002079 20140806

Probable Assignee: UNIV SANTIAGO CHILE

Assignee(s): (std)**:** UNIV SANTIAGO CHILE

Assignee(s): UNIVERSIDAD DE SANTIAGO DE CHILE

Inventor(s): (std)**:** GALLEGUILLOS SILVA RENATO ; VARGAS HERNANDEZ YOLANDA ; GAETE GARRETON LUIS ; RAMIREZ BUNSTER MARIA BELEN

Agent(s): JOHANSSON AND LANGLOIS LTDA

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

115) Family number: 28375443 (US2002157960A)

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Title: ELECTRO-CHEMICAL DEPOSITION CELL FOR FACE-UP PROCESSING OF SINGLE SEMICONDUCTOR SUBSTRATES

Abstract: An apparatus and method for electro-chemically depositing a uniform metal layer onto a substrate is provided. In one aspect, the apparatus includes a cathode connected to the substrate plating surface, an anode disposed above the substrate support member and an electroplating solution inlet supplying an electroplating solution fluidly connecting the anode and the substrate plating surface. In another aspect, the apparatus further includes a dual catch-cup system having an electroplating solution catch-cup and a rinse catch-cup. The dual catch-cup system provides separation of the electroplating solution and the rinse solutions during processing and provides re-circulating systems for the different solutions of the electroplating system.

Classifications:

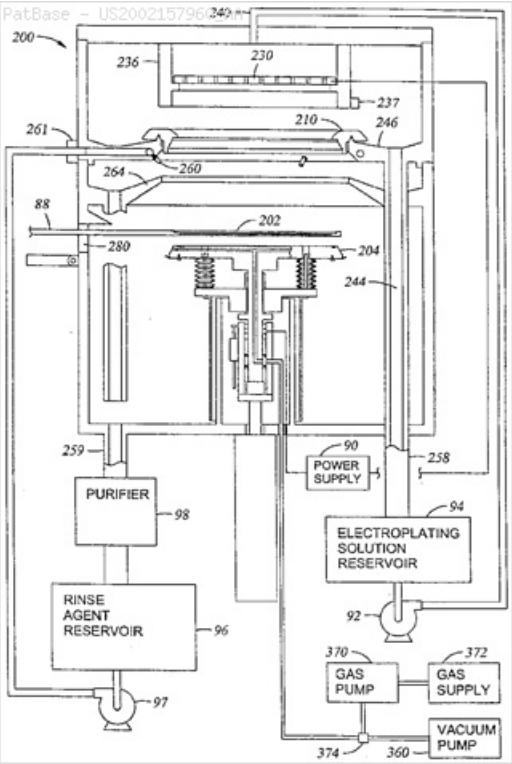
International (IPC 8-9): B05C11/00 B05C3/00 C23C14/00 C23C18/16 C23C18/18 C25D17/00 C25D17/06 C25D21/00 C25D5/08 C25D5/22 C25D7/12 G06F15/16 H01L21/00 H01L21/28 H01L21/288 H01L21/683 H01L21/687 (Advanced/Invention); H01L21/205 (Advanced/Non-invention); G06F15/16 (Core/Invention)

International (IPC 1-7): C23C16/00 C23C16/04 C23C18/16 C23C18/18 C23F1/00 C25C7/00 C25D17/06 C25D17/16 C25D21/08 C25D21/10 C25D5/00 C25D5/04 C25D5/08 C25D5/20 C25D5/22 C25D7/12 H01L21/00 H01L21/205 H01L21/28 H01L21/288

CPC: C25D7/123 C25D17/001 C25D17/004 C25D17/08 C25D5/20 C25D17/005 C25D21/18 H01L21/68721 C25D21/00 H01L21/67051 H01L21/6715 H01L21/6838 H01L21/68742 H01L21/68792 C23C18/1607 C23C18/1619 C23C18/1628 C23C18/165 C23C18/1653 C23C18/1678 H01L21/67126

European: C23C18/16B2 C25D17/00 C25D21/00 C25D7/12 H01L21/67S2D4W4 H01L21/67S2M H01L21/67S2V H01L21/683V H01L21/687S H01L21/687S2 H01L21/687S22 H01L21/687S8

US: 118/422 118/427 118/50 118/50.1 118/610 118/728 118/728S 156/345.3 156/345.300S 156/345.51 156/345.510P 156/345.510S 204/196.01 204/212 204/222 204/224R 204/225 204/237 204/275.1 204/275.100P 204/275.100S 204/278 204/282 204/284 204/297.01 204/297.03 205/137 205/143 205/148 205/148S



Family:

Publication number	Publication date	Application number	Application date
CN1639840 A	20050713	CN20038004707	20030121
EP0992062 A2	20000412	EP19990921430	19990421
EP1470571 A2	20041027	EP20030705844	20030121
JP2002506489 T2	20020226	JP19990553322T	19990421
JP2005539369 T2	20051222	JP20030564917T	20030121
KR20010014064 A	20010226	KR19997012100	19990421
TW200302295 A	20030801	TW20030101324	20030122
TW589408 B	20040601	TW19990106310	19990420
US2002157960 AA	20021031	US20020178469	20020624
US2003141018 AA	20030731	US20020059572	20020128
US2004020781 AA	20040205	US20030630185	20030729
US2005199489 AA	20050915	US20050090919	20050325
US6416647 BA	20020709	US19990294240	19990419
US6599402 BB	20030729	US20020178469	20020624
US7138014 BB	20061121	US20020059572	20020128
WO03065423 A2	20030807	WO2003US01753	20030121
WO03065423 A3	20031106	WO2003US01753	20030121
WO9954920 A2	19991028	WO1999US08784	19990421
WO9954920 A3	20000406	WO1999US08784	19990421

Priority:

US19980082494P 19980421 US19990294240 19990419 WO1999US08784 19990421
US20020059572 20020128 US20020178469 20020624 WO2003US01753 20030121
US20030630185 20030729 US20050090919 20050325

Probable Assignee: APPLIED MATERIALS INC

Assignee(s): (std): APPLIED MATERIALS INC

Assignee(s): NEUBREX CO LTD

Inventor(s): (std): SUGARMAN MICHAEL N ; STEVENS JOSEPH J ; PANCHAM IAN ; OLGADO DONALD J K ; OLGADO DONALD J ; MOK YEUK FAI EDWIN ; LUBOMIRSKY DMITRY ; IAN PANCHAM ; GRUNES HOWARD E ; EDWIN MOK YEUK FAI ; DMITRY LUBOMIRSKY ; YEUK FAI EDWIN MOK ; MOK YEUK FAI E ; DENOME MARK ; LOWRANCE ROBERT B ; STEVENS JOE ; DORDI YEZDI ; EDWARDS ROY ; SUGARMAN MICHAEL ; LOWRANCE BOB

Inventor(s): MICHAEL N. SUGARMAN ; JOE STEVENS ; OLGADO DONALD JK ; ROBERT B. LOWRANCE ; ROY EDWARDS ; YEZDI DORDI ; OLGADO DONALD ; GRUNES HOWARD ; MOK YEUK FAI ; STEVENS JOSEPH

Agent(s): MOSER PATTERSON AND SHERIDAN LLP APPLIED MATERIALS INC; PATTERSON AND SHERIDAN LLP

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

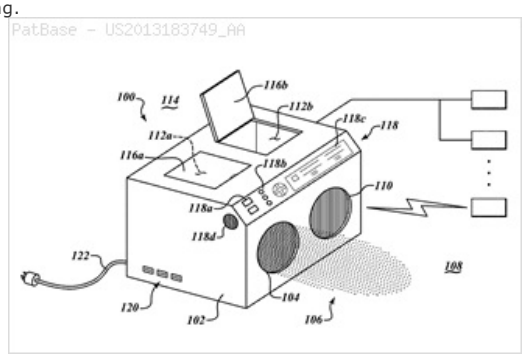
116) Family number: 47622455 (US2013183749A)

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Title: SYSTEMS, APPARATUS, METHODS AND ARTICLES FOR USE IN SANITIZATION OR DISINFECTION

Abstract: Various devices allow for sanitization or disinfection by exhausting a dry fog biocide agent into an ambient environment. A nebulizer, for instance a vibrator that oscillates or vibrates at ultrasonic frequencies, nebulizes a biocide agent, for instance chlorine dioxide, peracetic acid, hydrogen peroxide, to create the dry fog. Such devices may withdraw the dry fog or biocide agent from the ambient environment after some period of time. Operational parameters of the devices may be tracked or monitored. Each device may implement tracking or monitoring. Additionally or alternatively, a separate tracking or monitoring system may track or monitor the operational parameters of one or more devices. Tracking or monitoring may include exception reporting, as well as other reporting.

Classifications:
International (IPC 8-9): A01M13/00 A61L2/20 A61L2/22 A61L2/24 A61L2/26 A61L9/14 B05B17/06 C02F1/36 C12M1/34 G01N1/00 G06Q50/22 (Advanced/Invention)
CPC: A61L9/14 A61L2202/122 A61L2202/14 A61L2/208 A61L2/22 A61L2/26 A61L2202/16 A61L2202/25 B05B17/0607 G06Q50/22
European: A61L2/20H A61L2/22 A61L2/26 K61L202/160 K61L202/250 L05B17/06B
US: 1/1 435/287.1



Family:

Publication number	Publication date	Application number	Application date
EP2613813 A2	20130717	EP20110824079	20110907
EP2613813 A4	20141029	EP20110824079	20110907
GB201014820 A0	20101020	GB20100014820	20100907
GB201115339 A0	20111019	GB20110015339	20110906
GB2483552 A1	20120314	GB20110015339	20110906
IN02996DN2013 A	20160401	IN2013DN02996	20130404
KR20140032933 A	20140317	KR20137008992	20110907
US2013183749 AA	20130718	US20130789466	20130307
US9433695 BB	20160906	US20130789466	20130307
WO12032338 A1	20120315	WO2011GB51659	20110906
WO12033850 A2	20120315	WO2011US50715	20110907
WO12033850 A3	20120614	WO2011US50715	20110907

Priority:

GB20100014820 20100907 US20110433774P 20110118 GB20110015339 20110906
WO2011GB51659 20110906 GB20110051659 20110906 WO2011US50715 20110907
US20130789466 20130307

Probable Assignee: PENDRED INC

Assignee(s): (std): AAMODT JAMES ALAN ; DILIGENCE CORP ; MAYER JOHN WILLIAM ; NORMAN PENDRED AND CO LTD ; NORMAN PENDRED AND COMPANY LTD ; PENDRED CHRISTOPHER ; PENDRED NORMAN CO ; THOMPSON CHRISTOPHER ADAM ; PENDRED INC ; VAN T SLOT JAMES ; PENDRED CHRISTOPHER JOHN

Assignee(s): NORMAN PENDRED AND COMPANY LIMITED

Inventor(s): (std): MAYER JOHN WILLIAM ; VAN T SLOT JAMES ; THOMPSON CHRISTOPHER ADAM ; AAMODT JAMES ALAN ; PENDRED CHRISTOPHER JOHN ; PENDRED CHRISTOPHER

Inventor(s): VANT SLOT JAMES ; CHRISTOPHER JOHN PENDRED

Agent(s): CBDL PATENTANWAELTE; SEED IP LAW GROUP PLLC; BROOKES BATCHELLOR LLP; ABRAMONTE FRANK ET AL

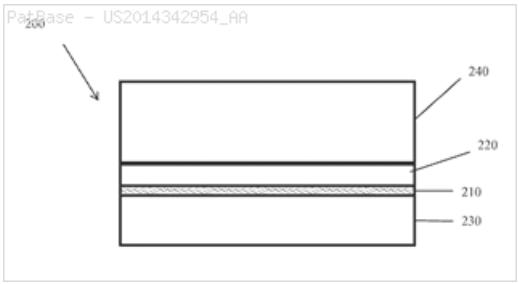
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY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

117) Family number: 54344458 (US2014342954A)

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Title: MODIFICATION OF SURFACES FOR FLUID AND SOLID REPELLENCY

Abstract: Articles, methods of making, and uses for modifying surfaces for liquid repellency are disclosed. The liquid repellant surfaces comprise a surface comprising an anchoring layer. The anchoring layer, which forms an immobilized molecular anchoring layer on the surface, has a head group that is covalently linked to, or adsorbed onto, the surface and a functional group. The functional group of the treated surface has an affinity for a lubricating layer, which is applied to the treated surface. The anchoring layer and replenishable lubricating layer are held together by non-covalent attractive forces. Together, these layers form an ultra-repellant slippery surface that repels certain immiscible liquids and prevents adsorption, coagulation, and surface fouling by components contained within.



Classifications:

International (IPC 8-9): A61F13/15 A61F13/47 A61F13/537 A61L A61L15/42 A61L15/50 A61L29/00 A61L29/06 A61L29/08 A61L29/12 A61L29/14 A61L31/00 A61L31/08 A61L31/12 A61L33/00 A61L33/04 B05D B05D1/00 B05D1/36 B05D3/02 B05D3/10 B05D3/12 B05D5/02 B05D5/08 B05D7/02 B05D7/14 B05D7/22 B08B B08B17/00 B08B17/06 B29C67/00 B32B15/08 B32B27/08 B32B27/28 B32B27/32 B32B3/26 B32B37/00 B32B37/12 B32B37/24 B32B38/00 B32B38/06 B32B5/16 B32B7/12 B65D25/14 C03C17/00 C09D C09D171/00 C09D5/16 C09D7/12 C09D7/61 C10M101/00 C10M103/04 C10M105/76 C10M107/38 C10M177/00 C23C18/04 C23C18/12 D06M11/00 D06M13/513 D06M15/657 (Advanced/Invention);
A61L B05D B08B C09D (Subclass/Invention)

CPC: A61L15/42 A61L15/50 C10M2213/0623 C10M2229/0415 C10N2230/06 C10N2250/18 B05D3/104 B08B17/065 A61F13/537 A61F13/15699 A61F13/15617 C10M107/38 C09D171/00 A61F2013/8455 B32B7/12 B32B3/26 B32B3/263 B32B27/08 B32B27/322 B32B27/283 B32B5/16 B05D3/0218 B05D3/12 B05D1/36 B32B37/24 B32B37/1284 B32B38/0012 B32B38/0004 B32B38/06 B32B37/0038 B32B2255/10 B32B2264/102 B32B2307/746 B32B2307/754 B32B2457/12 B32B2535/00 B32B2590/00 B32B2556/00 B32B2419/04 B32B2419/06 B32B2405/00 B32B2551/00 B32B2419/00 B32B2037/243 B32B2037/1246 B32B2038/002 B32B2038/0016 C03C17/001 B65D25/14 C03C2217/76 C03C2218/31 B08B17/06 C10M105/76 Y10T156/10 Y10T428/24322 Y10T428/24364 C09D5/1681 Y10T428/24355 B05D5/08 C09D7/61 C10M177/00 C10M2213/0606 C10N2280/00 C23C18/04 C23C18/1216 C23C18/1254 C23C18/1295 C09J7/203 C09J2427/005 C09J2483/006 Y10T428/24997 A61L29/06 A61L29/08 A61L29/14 A61L33/0041 A61L33/0094 A61L33/04 A61L2400/18 A61L2420/02 A61L2420/06 B05D1/60 B05D3/107 B05D5/086 B05D7/02 C09D5/1656 C09D5/1693

US: 1/1 141/1 156/280 156/329 156/60 205/137 206/524.3 210/502.1 210/634 216/37 427/2.1 427/2.24 427/299 427/301 427/309 427/314 427/331 427/355 427/372.2 428/137 428/141 428/142 428/312.8 508/100 508/107 604/378

Family:

Publication number	Publication date	Application number	Application date
AU2013207938 AA	20130718	AU20130207938	20130110
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EP3441433 A1	20190213	EP20180174933	20130110
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IN05944CN2014 A	20160701	IN2014CN05944	20140804
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KR20140111338 A	20140918	KR20147022130	20130110
US2014342954 AA	20141120	US20130371728	20130110

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US2015196940 AA	20150716	US20130414684	20130712
US2015209198 AA	20150730	US20130414592	20130712
US2015209846 AA	20150730	US20130414598	20130712
US2015210951 AA	20150730	US20130414668	20130712
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Priority:

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Probable Assignee: PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Assignee(s): (std): HARVARD COLLEGE ; PRESIDENT AND FELLOWS OF HARVARD COLLEGE ; PRESIDENTS AND FELLOWS OF HARVARD COLLEGE

Assignee(s): US DEPARTMENT OF ENERGY ; PRESIDENT AND FELLOWS OF HARVARD COLLEGE CAMBRIDGE ; AIZENBERG JOANNA ; AIZENBERG MICHAEL ; PRESIDENT AND FELLOWS OF HARVARD COLLEGE17 QUINCY STREETCAMBRIDGEMA02138US ; WATERHOUSE ANNA ; WATTERS ALEXANDER L ; SUPER MICHAEL ; KIM PHILSEOK ; LESLIE DANIEL C ; INGBER DONALD

Inventor(s): (std): KIM PHILSEOK ; LESLIE DANIEL C ; ALZENBERG MICHAEL ; ALZENBERG JOANNA ; SUPER MICHAEL ; INGBER DONALD ; WATERHOUSE ANNA ; WATTERS ALEXANDER L ; DUNN STUART ; UZAN OKTAY ; VOGEL NICOLAS ; AIZENBERG JOANNA ; AIZENBERG MICHAEL ; AIZERBERG MICHAEL ; YAO XI ; WONG TAK SING ; HATTON BENJAMIN ; UTECH STEFANIE ; SHILLINGFORD CICELY ; SUNNY STEFFI ; KIM PHIL SEOK ; UZUN OKTAY ; AIZANBERG JOANNA ; SUPER MICHAEL M ; WATTERS ALEXANDER L AL ; KIM PHILSEOK P ; WATERHOUSE ANNA A ; INGBER DONALD D ; LESLIE DANIEL C DC ; ALZENBERG JOANNA J ; ALZENBERG MICHAEL M ; WANG DECHENG

Inventor(s): WATERHOUS E ANNA ; INGBER DONALD BOSTON ; LESLIE DANIEL C BROOKLINE ; WATTERS ALEXANDER L MELROSE ; SUPER MICHAEL LEXINGTON ; ALZENBERG JOANNA BOSTON ; ALZENBERG MICHAEL BOSTON ; KIM PHILSEOK ARLINGTON ; WATERHOUSE ANNA CAMBRIDGE ; AIZENBERG JOANNAUS ; KIM PHILSEOKUS ; INGBER DONALDUS ; AIZENBERG MICHAELUS ; WATTERS ALEXANDER LUS ; LESLIE DANIEL CUS ; WATERHOUSE ANNAUS ; SUPER MICHAELUS

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; TORYS LLP; HERNANDEZ YORCK DIPL ING; HGF LTD; CLT PATENT AND TRADEMARK HK LTD; TANAKA MITSUO; YAMAZAKI HIROSHI; WILMER CUTLER PICKERING HALE AND DORR LLP; WILMER CUTLER PICKERING HALE AND DOOR LLP; SCOZZAFAVA MARY ROSE ET AL

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

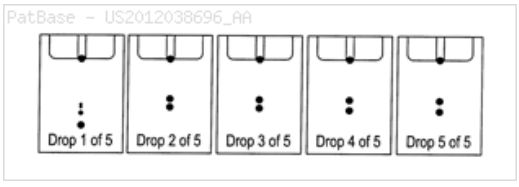
118) Family number: 50639458 (US2012038696A)

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Title: SUB-THRESHOLD VOLTAGE PRIMING OF INKJET DEVICES TO MINIMIZE FIRST DROP DISSIMILARITY IN DROP ON DEMAND MODE

Abstract: The establishment of a stable acoustic environment within the individual channels of an inkjet printing device functions to allow the inkjet printing device to precisely deposit the same amount of a particular substance at one or more locations on an object. This is particularly relevant when the inkjet printing device is operated in the on-demand mode of operation.

Classifications:
International (IPC 8-9): A61F2/82 A61F2/84 A61F2/90 A61L31/00 A61L31/16 A61M31/00 A61M37/00 B05B12/00 B05D1/26 B05D3/00 B41J2/025 B41J2/045 B41J2/07 B41J2/12 B41J29/38 B41J3/00 G01G17/04 (Advanced/Invention)
CPC: A61F2/91 B41J2/04575 B41J2/04581 B41J2/04588 B41J2/04596 B41J2/04598
European: B41J2/045D54 B41J2/045D58 B41J2/045D62 B41J2/045D67 B41J2/045D68 K61F2/91
US: 347/11 347/11P 347/5 347/9



Family:

Publication number	Publication date	Application number	Application date
CA2748633 AA	20120212	CA20112748633	20110810
CA2748633 C	20141007	CA20112748633	20110810
DE602011033561 D1	20170209	DE201160033561T	20110805
EP2418085 A1	20120215	EP20110176715	20110805
EP2418085 B1	20161221	EP20110176715	20110805
JP2012040380 A2	20120301	JP20110175631	20110811
JP6038435 B2	20161207	JP20110175631	20110811
MX2011008564 A1	20120220	MX20110008564	20110812
US2012038696 AA	20120216	US20100855296	20100812

US8333451 BB	20121218	US20100855296	20100812

Priority:

US20100855296 20100812 EP20110176715 20110805 CA20112748633 20110810

Probable Assignee: CARDINAL HEALTH SWITZERLAND 515 GMBH

Assignee(s): (std): CORDIS CORP ; FAMILI AMIN ; PALKAR SAURABH A ; BALDY JR WILLIAM J

Assignee(s): CARDINAL HEALTH SWITZERLAND 515 GMBH ; CORDIS CORP430 ROUTE 22BRIDGEWATERNJ08807US ; CORDIS CORP BRIDGEWATER

Inventor(s): (std): BALDY JR WILLIAM J ; PALKAR SAURABH A ; FAMILI AMIN ; BALDY WILLIAM J JR

Inventor(s): BALDY WILLIAM J ; FAMILI AMIN OREFIELD ; PALKAR SAURABH A AUDUBON ; BALDY WILLIAM J JR TELFORD ; FAMILI AMINUS ; BALDY JR WILLIAM JUS ; PALKAR SAURABH AUS

Agent(s): SIM AND MCBURNEY; MARKS AND CLERK LUXEMBOURG LLP; BROWN GEORGE LAURENCE; PROCK THOMAS; KATO MASANOBU

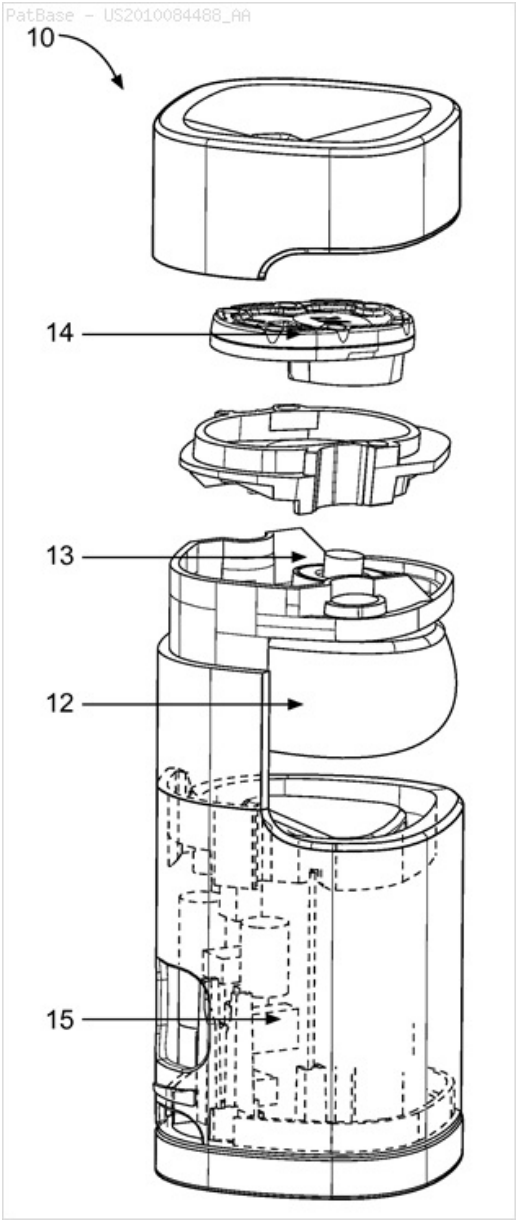
Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

119) Family number: 44866461 (US2010084488A) © PatBase

Title: ALTERNATING CURRENT POWERED DELIVERY SYSTEM

Abstract: An air treatment device having a piezoelectric actuator powered by a transformer. The transformer has dual inputs comprising oppositely wound coils and input power signals 180 degrees out of phase. This arrangement provides a stronger drive signal to the actuator.

Classifications:
International (IPC 8-9): A61L9/14 B05B1/08 B05B17/06 B06B1/02 H01L41/04 H02N2/06 (Advanced/Invention); B05B1/02 H02N2/02 (Core/Invention)
CPC: A61L9/14 A61L2209/132 B05B17/0607 B06B1/0238 H01L41/042
European: B06B1/02D3C H01L41/04B K61L209/132 K61L9/14 L05B17/06B
US: 239/102.1 239/102.2 239/102.200P 310/317 310/317S 310/318 331/114 331/116.00R 331/116R



Family:

Publication number	Publication date	Application number	Application date
US2010084488 AA	20100408	US20080245270	20081003
US8006918 BB	20110830	US20080245270	20081003
WO10039621 A1	20100408	WO2009US58514	20090928

Priority:

US20080245270 20081003

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): MAHONEY III WILLIAM PAUL ; MAHONEY WILLIAM PAUL III ; PROCTER AND GAMBLE ; TOLLENS FERNANDO RAY

Assignee(s): THE PROCTOR AND GAMBLE COMPANY ; PROCTER AND GAMBLE CO ; PROCTOR AND GAMBLE CO ; THE PROCTER AND GAMBLE COMPANY

Inventor(s): (std): MAHONEY WILLIAM PAUL III ; TOLLENS FERNANDO RAY ; MAHONEY III WILLIAM PAUL

Agent(s): THE PROCTER AND GAMBLE COMPANY,GLOBAL LEGAL DEPARTMENT - IP; PROCTER AND GAMBLE CO GLOBAL LEGAL DEPARTMENT IP; LARRY L; LEONARD W; STEVEN W; THE PROCTER AND GAMBLE COMPANY

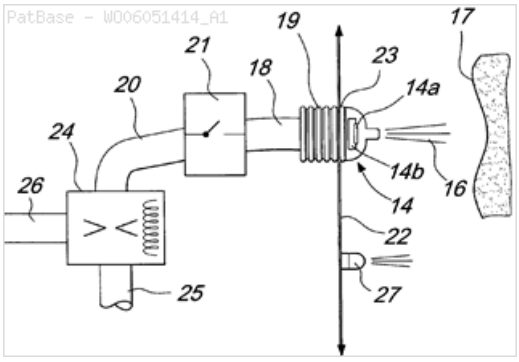
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120) Family number: 33020463 (WO06051414A1) © PatBase

Title: AIR MASSAGING DEVICE

Abstract: A massaging device, its particularity consisting in that it comprises a plurality of nozzles (14) connected to a source of compressed air (5) by means of a main duct (20) in order to emit a respective jet of compressed air in an empty space, without the interposition of a volume of water, the device further comprising means (8, 21) for adjusting the jet of compressed air emitted by the nozzles, in order to adjust the intensity of the jet and direct the jet of compressed air substantially at right angles to the body of a user, so as to massage the body with a sussultatory motion by means of the jets of compressed air.

Classifications:
International (IPC 8-9): A61H37/00 A61H9/00 B05B17/06 (Advanced/Invention);
A61H37/00 A61H9/00 B05B17/04 (Core/Invention)
CPC: A61H9/0007 A61H9/0071 A61H23/0245 A61H2201/0207 A61H2201/0214 A61H2201/0228 A61H2201/0242 A61H2201/025 A61H2201/10 A61H2201/105 A61H2201/1669 A61H2201/5002 A61N2005/0652 A61N2005/0659 A61N2005/0663
European: A61H9/00P4 K61H201/02A K61H201/02C K61H201/02H K61H201/02L K61H201/02M2 K61H201/02M4 K61H201/02M6 K61H201/06 K61H201/06L K61H201/10 K61H201/10N K61H201/13 K61H201/16B8B K61H201/50A K61H23/02P K61H9/00A K61N5/06T2A K61N5/06W2 K61N5/06W6A



Family:

Publication number	Publication date	Application number	Application date
ITNA20040063 A1	20050211	IT2004NA00063	20041111
WO06051414 A1	20060518	WO2005IB03456	20051110
WO06051414 C1	20060727	WO2005IB03456	20051110

Priority:
IT2004NA00063 20041111

Probable Assignee: DE MARTINO ANNAMARIA

Assignee(s): (std): DE MARTINO ANNA MARIA ; DE MARTINO ANNAMARIA ; FALACE VIVIANA

Inventor(s): (std): DE MARTINO ANNA MARIA ; DE MARTINO ANNAMARIA ; FALACE VIVIANA

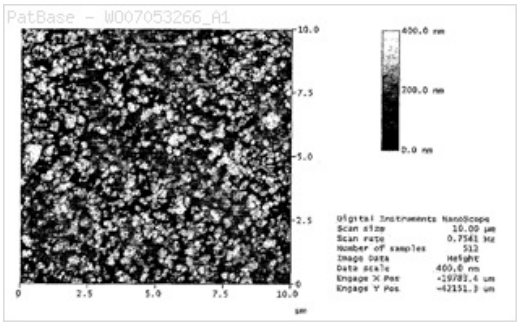
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH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

121) Family number: 31172467 (US2004213904A) © PatBase

Title: PROCESS FOR PRODUCING DETACHABLE DIRT-AND WATER-REPELLENT SURFACE COATINGS

Abstract: Process for producing detachable dirt- and water-repellent surface coatings on articles, wherein during the coating process, hydrophobic particles are applied to the surface of the articles, thus generating a sure structure with elevations on that surface of the articles that has dirt- and water-repellent properties, which comprises suspending the hydrophobic particles in a solution of a silicone wax in a highly volatile siloxane, and applying this suspension to at least one surface of an article, and then removing the highly volatile siloxane.

Classifications:
International (IPC 8-9): B05C19/04 B05D3/00 B05D3/02 B05D5/00 B05D5/02 B05D7/24 B08B17/06 B32B3/00 B32B3/30 B32B5/14 B82Y30/00 C01B33/12 C03C25/24 C04B14/04 C04B28/26 C04B41/49 C07F7/18 C08J7/04 C08K3/20 C08K3/36 C08K5/5445 C08L83/04 C09C1/28 C09C1/30 C09C3/12 C09D1/00 C09D183/04 C09D5/00 C09D5/16 C09D5/20 C09D7/00 C09D7/12 C09K3/00 C09K3/18 C23C16/40 D06M11/79 D06M23/08 D06M23/10 (Advanced/Invention);
B05D5/00 B82Y40/00 C01B33/14 C08K3/00 (Advanced/Non-invention);
B05D3/02 B32B3/00 B32B5/14 C08J7/00 C08K3/00 C08K5/00 C08L83/00 C09C1/28 C09D183/04 C09D5/00 C09D5/16 C09D5/20 C09D7/12 C09K3/18 (Core/Invention);
C01B33/00 (Core/Non-invention)
International (IPC 1-7): B05D1/12 B05D5/00 B05D7/24 C08K3/20 C08L83/04 C09C1/30 C09D183/04 C09D7/12 C09K3/00 C09K3/18
CPC: B82Y30/00 C01P2004/51 C01P2004/64 C09D5/1618 C09D5/1681 D06M11/79 D06M23/08 D06M23/10 D06M2200/05



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US: 106/285 106/285S 106/287.1 106/287.11 106/287.13 106/287.14 106/287.140S 106/287.15 106/287.150S 106/287.16 106/287.160S 106/287.19 106/287.190S 106/287.26 106/287.260S 106/287.34 106/287.340S 106/490 118/58 118/58S 118/620 118/620S 423/335 427/154 427/154S 427/155 427/155S 427/156 427/180 427/180P 427/333 427/333P 427/372.2 427/372.200 427/372.200P 427/384 427/384P 427/387 427/393.4 427/393.400S 427/397.7 427/397.700P 427/8 427/8S 428/141 428/141P 524/188 524/236 524/267 524/267S 524/430 524/430S 524/588 524/588S 977/773 977/773S 977/892 977/892S

Family:

Publication number	Publication date	Application number	Application date
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EP1954766 A2	20080813	EP20060807539	20061025
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ES2275039 T3	20070601	ES20030009302T	20030424
ES2719737 T3	20190712	ES20060807539T	20061025
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US2006110542 AA	20060525	US20050263284	20051031
US2006235143 AA	20061019	US20060451868	20060613
US2010272913 AA	20101028	US20100828076	20100630
US2011039029 AA	20110217	US20100890962	20100927
US2011054096 AA	20110303	US20100941669	20101108
US2012171419 AA	20120705	US20120343514	20120104
US7083828 BB	20060801	US20030740346	20031218
US7531598 BB	20090512	US20060451868	20060613
US7828889 BB	20101109	US20050264606	20051031
US7901731 BB	20110308	US20100828076	20100630
US8034173 BB	20111011	US20050263284	20051031
US8043654 BB	20111025	US20100890962	20100927
US8110037 BB	20120207	US20100941669	20101108
US8974590 BB	20150310	US20120343514	20120104
WO07051747 A2	20070510	WO2006EP67760	20061025
WO07051747 A3	20080522	WO2006EP67760	20061025
WO07053266 A1	20070510	WO2006US39360	20061010

Priority:

EP20030009302 20030424 US20030740346 20031218 US20050264606 20051031
US20050263284 20051031 US20060451868 20060613 WO2006US39360 20061010
EP20060807539 20061025 WO2006EP67760 20061025 US20100828076 20100630
US20100890962 20100927 US20100941669 20101108 US20120343514 20120104

Probable Assignee: ARMOR ALL STP PRODUCTS CO

Assignee(s): (std)**:** ARMOR ALL STP PRODUCTS CO ; CLOROX CO ; COUTTS DANIELLE ; DEGUSSA GMBH ; DEGUSSA ; DIETZ THOMAS ; GOLDSCHMIDT GMBH ; MULLER FELIX ; GOLDSCHMIDT AG TH ; MUELLER FELIX ; EVONIK DEGUSSA GMBH ; RUSSELL JODI LYNN ; RUSSELL JODI L ; SEROBIAN ASHOT K ; PIVONKA NICHOLAS ; NARGIELLO MARIA R ; WINTER PATRICK ; NUN EDWIN ; RUSSEL JODI LYNN ; GOLDSCHMIDT TH AG

Assignee(s): GOLDSCHMIDT AG ; MULLER FLEIX ; JPMORGAN CHASE BANK NA ADMINISTRATIVE AGENT AS ; KWIKSET CORP ; LIQUID HOLDING CO INC ; ENERGIZER AUTO INC ; THE CLOROX COMPANY ; SEROBIEN ASHOT K ; NATIONAL MFG CO ; PRICE PFISTER INC ; ROV HOLDING INC A CORP OF DELAWARE ; ROVCAL INC ; ROVCAL INC A CORP OF CALIFORNIA ; RUSSELL HOBBS INC A CORP OF DELAWARE ; SALIX ANIMAL HEALTH LLC ; SEED RESOURCES LLC ; SPECTRUM BRANDS INC ; SPECTRUM BRANDS INC A CORP OF DELAWARE ; SPECTRUM BRANDS INC SUCCESSOR IN INTEREST TO ROVCAL INC AS ; TELL MFG INC ; TETRA HOLDING US INC A CORP OF DELAWARE ; TETRA HOLDINGS US INC ; UNITED IND CORP ; UNITED IND SUCCESSOR IN INTEREST TO LIQUID HOLDING CO INC AS CORP ; UNITED PET GROUP INC ; UNITED PET GROUP INC A CORP OF DELAWARE ; ROYAL BANK OF CANADA ; EVONIK GOLDSCHMIDT GMBH ; DEUTSCHE BANK NEW YORK BRANCH COLLATERAL AGENT AG AS ; APPLICA CONSUMER PRODUCTS INC ; APPLICA CONSUMER PRODUCTS INC A CORP OF FLORIDA ; CLOROX SERVICES CO ; DEGUSSA AG

Inventor(s): (std)**:** MULLER FELIX ; NUN EDWIN ; RUSSELL JODI L ; COUTTS DANIELLE ; SEROBIAN ASHOT K ; PIVONKA NICHOLAS ; DIETZ THOMAS ; NARGIELLO MARIA R ; MUELLER FELIX ; MULLER FELIX DR ; RUSSEL JODI LYNN ; WINTER PATRICK ; NUN EDWIN DR ; MUELLER FELIX DR ; PATRICK WINTER ; LYNN RUSSEL JODI ; THOMAS DIETZ ; FELIX MUELLER ; MULLER FLEIX ; RUSSELL JODI LYNN ; SEROBIEN ASHOT K

Inventor(s): DR FELIX MULLER ; DR THOMAS DIETZ ; JODI LYNN RUSSEL ; MARIA R NARGIELLO ; ASHOT K SEROBIAN ; FLEIX MULLER ; DANIELLE COUTTS ; JODI LYNN RUSSELL ; NICHOLAS PIVONKA ; ASHOT

K SEROBIEN ; DR FELIX MUELLER ; NARGIELLO MARIA ; RUSSELL JODI ; SEROBIAN ASHOT

Agent(s): PIZZEYS PATENT AND TRADE MARK ATTORNEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; RICHES MCKENZIE AND HERBERT LLP; LEHMANN MARIA ISABEL; THE CLOROX COMPANY; CLOROX CO; SCULLY SCOTT MURPHY AND PRESSER PC; ERIN; ANN; OHLANDT GREELEY RUGGIERO AND PERLE LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR 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 MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

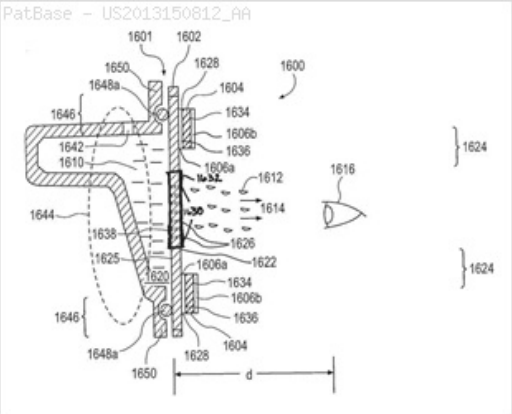
122) Family number: 54081481 (US2013150812A)

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Title: HIGH MODULUS POLYMERIC EJECTOR MECHANISM, EJECTOR DEVICE, AND METHODS OF USE

Abstract: An ejector device and method of delivering safe, suitable, and repeatable dosages to a subject for topical, oral, nasal, or pulmonary use is disclosed. The ejector device includes a housing, a reservoir disposed within the housing for receiving a volume of fluid, and an ejector mechanism in fluid communication with the reservoir and configured to eject a stream of droplets, the ejector mechanism comprising an ejector plate coupled to a generator plate and a piezoelectric actuator; the piezoelectric actuator being operable to oscillate the ejector plate, and thereby the generator plate, at a frequency and generate a directed stream of droplets.

Classifications:
International (IPC 8-9): A61F A61F9/00 A61J1/05 A61M11/00 B05B B05B11/00 B05B17/00 B05B17/06 (Advanced/Invention); A61F B05B (Subclass/Invention)
CPC: B05B17/0646 B05B17/0661 A61F9/0026 A61F9/0008
US: 1/1 604/295



Family:

Publication number	Publication date	Application number	Application date
CN104487028 A	20150401	CN201280067700	20121212
CN104582647 A	20150429	CN201280067642	20121212
CN104582647 B	20161130	CN201280067642	20121212
EP2790619 A1	20141022	EP20120810488	20121212
EP2790620 A1	20141022	EP20120815882	20121212
HK1208145 A1	20160226	HK20150108909	20150911
JP2015500132 T2	20150105	JP20140547392T	20121212
JP2015506731 T2	20150305	JP20140547390T	20121212
JP5960840 B2	20160802	JP20140547390T	20121212
JP6105621 B2	20170329	JP20140547392T	20121212
US2013150812 AA	20130613	US20120712857	20121212
US2013172830 AA	20130704	US20120712784	20121212
US2018085251 AA	20180329	US20170678490	20170816
US2018116871 AA	20180503	US20170697099	20170906
WO13090459 A1	20130620	WO2012US69296	20121212
WO13090468 A1	20130620	WO2012US69309	20121212

Priority:

US20110569739P 20111212 US20120591786P 20120127 US20120712857 20121212
US20120712784 20121212 WO2012US69309 20121212 WO2012US69296 20121212
US20170678490 20170816 US20170697099 20170906

Probable Assignee: EYENOVIA INC

Assignee(s): (std): CLEMENTS J SID ; HUNTER CHARLES ERIC ; GERMINARIO LOUIS THOMAS ; LYNCH IYAM ; EYENOVIA INC ; BROWN JOSHUA RICHARD ; CORINTHIAN OPHTHALMIC INC ; WILKERSON JONATHAN RYAN

Assignee(s): ESHELMAN FRED N ; INACHULEV TSONTCHO ; CLEMENTS J ; ACADIA WOODS PARTNERS LLC ; AMP FAMILY PARTNERSHIP III LP ; MACK JOHN ; MARIO 2002 GRANDCHILDREN S TRUST ; MARK PACKER ; MIDDLEMARCH LLC ; PRINCETON OPHTHALMIC LLC ; RK VENTURES GROUP II LLC ; SAMBERG ARTHUR J ; STERN THOMAS ; WILLE AG

Inventor(s): (std): WILKERSON JONATHAN RYAN JR ; LYNCH IYAM I ; BROWN JOSHUA RICHARD JR ; HUNTER CHARLES ERIC CE ; GERMINARIO LOUIS THOMAS LT ; WILKERSON JONATHAN RYAN ; LYNCH IYAM ; GERMINARIO LOUIS THOMAS ; BROWN JOSHUA RICHARD ; HUNTER CHARLES ERIC ; CLEMENTS J SID

Inventor(s): CLEMENTS J

Agent(s): UEXKUELL AND STOLBERG; CLT PATENT AND TRADEMARK HK LTD; AOKI ATSUSHI; SHIMADA TETSURO; VINNOLA MILAN M ET AL

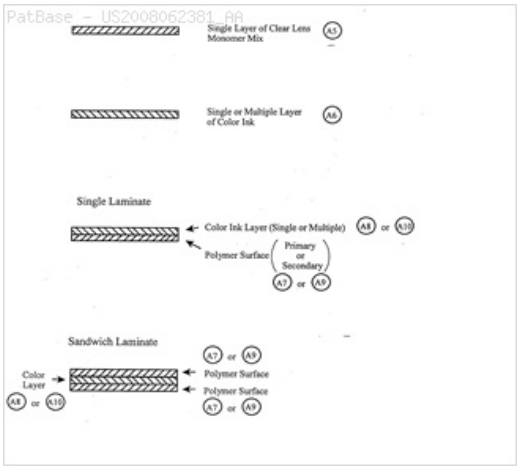
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123) Family number: 41606481 (US2008062381A)

Title: TINTED LENSES AND METHODS OF MANUFACTURE

Abstract: The present invention recognizes that lenses, such as contact lenses, can be modified and pigmented using an ink that includes oligomers, polymers or polymerizable monomers. The ink can be used to make images on or within the lens, or the ink may be similar to the material of the lens and be precisely deposited on the lens surface to create corrective radius at the exact location on the lens surface. The lens material may also be deposited by an inkjet printer to create a hybrid lens. Deposition of ink or other material may be digital or analogue signal and can be used in a variety of printing methods, including ink-jet printing.

Classifications:
International (IPC 8-9): B05D3/00 B41J2/01 G02B7/04 G02C7/04 (Advanced/Invention);
B05D3/00 B41J2/01 G02B7/04 G02C7/04 (Core/Invention)
CPC: G02C7/049 G02C7/021 B29D11/00028 B29D11/00048 B29D11/0073 C09D11/101 G02C7/046
European: A61N1/00 B29D11/00C3 B29D11/00C4B B29D11/00H C09D11/101 G02C7/02B G02C7/04C
US: 347/102 347/102S 351/159.69 351/159.690P 351/159.74 351/159.740S 351/160H 351/161 351/161P 351/162 351/162S 351/177 351/177S



Family:

Publication number	Publication date	Application number	Application date
US2008062381 AA	20080313	US20070900735	20070912
WO08033481 A2	20080320	WO2007US19965	20070912
WO08033481 A3	20080703	WO2007US19965	20070912

Priority:
US20060844174P 20060913 US20070900735 20070912

Probable Assignee: DOSHI PRAFUL

Assignee(s): (std): DOSHI PRAFUL ; HALBE STEPHEN D ; KULKARNI CHIDAMBAR L

Inventor(s): (std): DOSHI PRAFUL ; KULKARNI CHIDAMBAR L ; HALBE STEPHEN D

Inventor(s): KULKARNI CHIDAMBAR ; HALBE STEPHEN

Agent(s): DAVID R PRESTON AND ASSOCIATES APC; PRESTON DAVID R

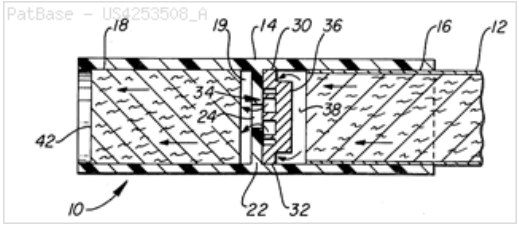
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124) Family number: 30236486 (US4253508A)

Title: Selective filtering of tobacco smoke by enhanced filtration efficiency

Abstract: The specification discloses structure where by applying modulated selectivity constituents are separated from tobacco smoke by stimulated coagulation and adsorption. An ultrasonic generating disc (30) is disposed in the flowstream of the tobacco smoke for generating an ultrasonic field having frequencies up to about 1 MHz to cause coagulation and adsorption of constituents in the flow. The disc (30) includes a ring of semicircular cavities (56), having sharp edges (54) defined on the boundary thereof, which form essentially a ring of vibrojet whistles facing into the flow. The vibrojet whistles are driven by the flow to produce high frequency vortices in the cavities (56). The cavities (56) resonate in phase to create disturbances downstream of the disc (30) which constructively interfere to create a high energy ultrasonic field in the flow. The cavities (56) are arranged so that the energy of the sonic field is directed into a relatively small region thereby inducing coagulation and adsorption.

Classifications:
International (IPC 8-9): A24D1/04 A24D3/04 B01D21/00 B01D50/00 B01D51/00 B01D51/08 B01F5/00 B01J19/10 B06B1/18 B06B1/20 F15C1/00 F15C1/16 F15C1/22 G10K5/00
G10K5/02 (Advanced/Invention);
B01F5/00 (Advanced/Non-invention);
A24D1/00 A24D3/00 B01D21/00 B01D50/00 B01D51/00 B01F5/00 B01J19/10 B06B1/18 B06B1/20 F15C1/00 G10K5/00 (Core/Invention);
B01F5/00 (Core/Non-invention);
G10D (Subclass/Invention)
International (IPC 1-7): A24B15/00 A24C5/48 A24D1/04 A24D3/04 A24D3/06 A24D3/18 A24F7/04 B01D21/00 B01D45/00 B01D51/08 B04C5/00 B05B1/34 B05B17/06 B06B1/18 B06B1/20 F15B21/12 F15C1/00 F15C1/16 F15C1/22 G10D G10K10/00 G10K5/00
CPC: B01F5/0057 B01F5/0062 B01F2005/004 B01J19/10 G10K5/02 A24D3/045
European: A24D3/04C B01F5/00B B01F5/00B4 B01J19/10 G10K5/02 L01F5/00A20B
US: 131/10.5 131/202 131/338 131/339 239/466 239/543 239/545



Family:

Publication number	Publication date	Application number	Application date
AR223222 A1	19810731	AR19800281299	19800605
AU198054736 A1	19800724	AU19800054736	19800118
BR8001555 A	19810825	BR19800001555	19800314
CA1121685 A1	19820413	CA19800343982	19800118

DE3001774 A1	19800731	DE19803001774	19800118
DE3001781 A1	19800731	DE19803001781	19800118
FR2446607 A1	19800814	FR19800001120	19800118
FR2446607 B3	19811120	FR19800001120	19800118
FR2446684 A1	19800814	FR19800001121	19800118
FR2446684 B3	19811106	FR19800001121	19800118
GB2041620 A1	19800910	GB19800001948	19800121
GB2048644 A1	19801217	GB19800001518	19800116
GB2048644 B2	19830518	GB19800001518	19800116
IT1225648 A	19901122	IT19800019334	19800121
IT8019334 A0	19800121	IT19800019334	19800121
JP55131379 A2	19801013	JP19800004444	19800118
JP55135212 A2	19801021	JP19800004443	19800118
MX6496 U	19850619	MX19800101341U	19800118
US4253508 A	19810303	US19790004818	19790119
US4347983 A	19820907	US19800110670	19800109
ZA8000343 A	19810128	ZA19800000343	19800121

Priority:

US19790004818 19790119 US19800110670 19800109 CA19800343982 19800118
MX19800180859 19800118

Probable Assignee: SONTEK IND

Assignee(s): (std): BODAI IND INC ; SONTEK IND ; SONTEK IND INC ; SONTEK INDUSTRIES INC ; SONTETSUKU IND INC

Assignee(s): BODAI INDUSTRIES INC ; BODAI BALAZS I ; BODAI CONRAD A

Inventor(s): (std): BALAZS I BODAI ; CONRAD A BODAI ; BARAZUSU AI BODAI ; KONRATSUDO EI BODAI ; BODAI B ; BODAI C ; BODAI BALAZS I ; BODAI CONRAD A

Inventor(s): A BODAI CONRAD ; I BODAI BALAZS

Agent(s): SPRUSON AND FERGUSON; SMART AND BIGGAR

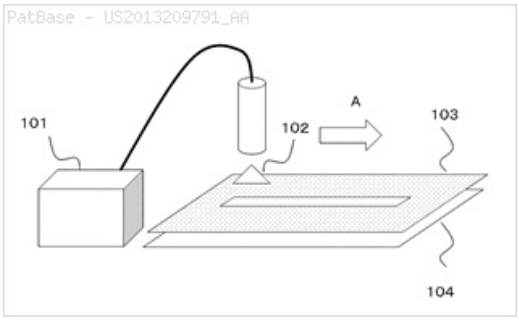
125) Family number: 51041488 (US2013209791A)

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Title: TRANSPARENT ELECTRICALLY CONDUCTIVE LAMINATE AND PROCESS FOR PRODUCTION THEREOF

Abstract: A transparent conductive laminate comprises a conductive layer. At least one of the following conditions [A] to [C] is satisfied and the ratio of the surface resistance after subjecting the transparent conductive laminate to a 1-hour moist-heat treatment at a temperature of 60 degrees centigrade and a relative humidity of 90 percent and then leaving the resultant to stand for 3 minutes at a temperature of 25 degrees centigrade and a relative humidity of 50 percent is 0.7 to 1.3 with respect to the surface resistance prior to the treatment: [A] the surface resistance at a white reflectance of 75 percent is not higher than 1.1x103 Omega/?; [B] the surface resistance at a light absorptivity of a carbon nanotube layer of 5 percent is not higher than 1.1x103 Omega/?; and [C] the surface resistance at a total light transmittance of 90 percent is not higher than 1.1x103 Omega/?.

Classifications:
International (IPC 8-9): B01F11/02 B01J19/10 B05D1/36 B05D5/12 B05D7/24 B32B27/18 B32B7/00 B32B7/02 B32B9/00 B82Y30/00 B82Y40/00 C01B31/02 G06F3/041 H01B1/04 H01B1/24 H01B13/00 H01B13/30 H01B13/32 H01B5/14 (Advanced/Invention)
CPC: H01B1/04 H01B1/24 B05D5/12 B82Y30/00 B82Y40/00 Y10T428/259 C01B32/05 B01F11/02 C01B32/174 H01B13/30 G06F3/041 G06F2203/04103 H01B5/14 H01B13/322 C01B32/168 B01J19/10
US: 1/1 252/502 366/108 427/122 428/331 428/448 428/688 428/702



Family:

Publication number	Publication date	Application number	Application date
CN102822092 A	20121212	CN201180015736	20111028
CN102822092 B	20150909	CN201180015736	20111028
CN103189311 A	20130703	CN201180052155	20111028
CN103189311 B	20150930	CN201180052155	20111028
EP2543634 A1	20130109	EP20110836454	20111028
EP2543634 A4	20170531	EP20110836454	20111028
EP2634139 A1	20130904	EP20110836453	20111028
EP2634139 A4	20170607	EP20110836453	20111028
JP2012057320 A1	20140512	JP20110546467T	20111028
JP2012057321 A1	20140512	JP20110550370T	20111028
JP5316653 B1	20131016	JP20110550370T	20111028
JP5316653 B2	20131016	JP20110550370T	20111028
JP5605373 B1	20141015	JP20110546467T	20111028
KR20130125285 A	20131118	KR20127025363	20111028
KR20140032349 A	20140314	KR20137012502	20111028
TW201223864 A	20120616	TW20110139255	20111028
TW201230077 A	20120716	TW20110139254	20111028
TWI515165 B	20160101	TW20110139255	20111028
TWI553667 B	20161011	TW20110139254	20111028
US2013209791 AA	20130815	US20110637792	20111028
US2013214210 AA	20130822	US20110881216	20111028
US9443640 BB	20160913	US20110881216	20111028
WO12057320 A1	20120503	WO2011JP74943	20111028
WO12057321 A1	20120503	WO2011JP74944	20111028

Priority:

JP20100243737 20101029 JP20110074643 20110330 JP20110121497 20110531
JP20110155939 20110714 JP20110550370 20111028 JP20110546467 20111028
WO2011JP74944 20111028 WO2011JP74943 20111028

Probable Assignee: TORAY IND INC

Assignee(s): (std): AIR TONY CO LTD ; HONDO KAZUNORI ; NISHINO HIDEKAZU ; OI TAKASHI ; SATO KENICHI ; TORAY IND ; TORAY INDUSTRIES ; WATANABE OSAMU ; TORAY IND INC

Assignee(s): TORAY INDUSTRIES, INC.

Inventor(s): (std): SATO KENICHI ; HONDO KAZUNORI ; NISHINO HIDEKAZU ; OI TAKASHI ; WATANABE OSAMU

Agent(s): HAGER THOMAS JOHANNES; WEBSTER JEREMY MARK; RATNERPRESTIA

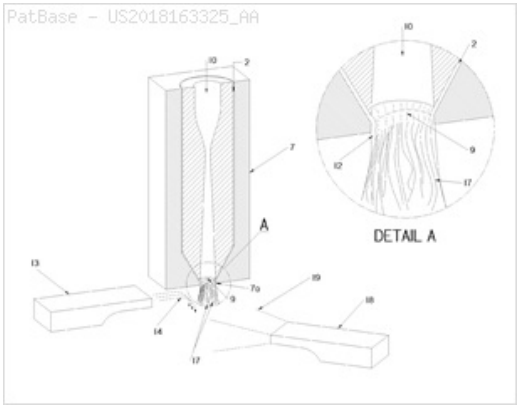
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126) Family number: 70075489 (US2018163325A)

Title: DISSOLVABLE FIBROUS WEB STRUCTURE ARTICLE COMPRISING ACTIVE AGENTS

Abstract: The personal care compositions of the present invention are in the form of an Article comprising a dissolvable fibrous web structure. The fibers of the dissolvable fibrous web structure comprise a surfactant; a water soluble polymeric structurant; and a plasticizer. Additionally the ratio of the water soluble water soluble polymeric structurant to the active agent in the fiber is 3.5 or less.

Classifications:
International (IPC 8-9): A61K8/02 A61K8/34 A61K8/362 A61K8/46 A61K8/49 A61K8/73 A61K8/81 A61K8/86 A61Q19/10 A61Q5/02 B05D3/00 B05D7/02 D01D1/02 D01D5/04 D01D5/42 (Advanced/Invention)
CPC: D01D5/423 A61K2800/80 A61Q19/10 A61K8/345 A61K8/8129 A61K8/4946 A61K8/463 A61K8/731 A61K8/362 A61K8/86 A61K8/0204 D01D1/02 D01D5/04 A61Q5/02 D01D5/253 D01F6/50 A61K8/0208 A61Q19/00
US: 1/1 264/557



Family:

Publication number	Publication date	Application number	Application date
US2018163325 AA	20180614	US20160374486	20161209
US2018258555 AA	20180913	US20180978503	20180514

Priority:

US20100360982P 20100702 US20110173639 20110630 US20140334862 20140718
US20160170125 20160601 US20160374486 20161209 US20180978503 20180514

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): ALLEN JR WILLIAM MAXWELL ; BRENNAN JONATHAN PAUL ; CHHABRA RAJEEV ; GLENN JR ROBERT WAYNE ; PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO

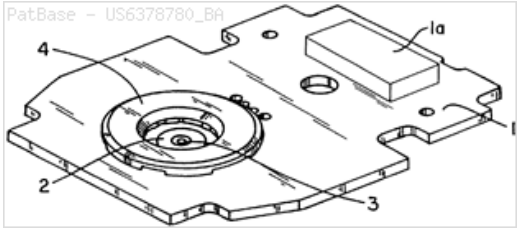
Inventor(s): (std): ALLEN JR WILLIAM MAXWELL ; GLENN JR ROBERT WAYNE ; CHHABRA RAJEEV ; BRENNAN JONATHAN PAUL

127) Family number: 29861490 (US6378780B)

Title: Delivery system for dispensing volatiles

Abstract: Disclosed herein is a piezoelectric liquid delivery system or atomizer for production of droplets of liquid or liquid suspensions by a battery operated dispenser utilizing an orifice plate in communication with a piezoelectric element. By control of the viscosity and surface tension of the liquid to be dispersed, an improved method of dispensing such liquid is achieved.

Classifications:
International (IPC 8-9): A01M7/00 A61M11/00 B05B B05B12/10 B05B17/00 B05B17/04 B05B17/06 (Advanced/Invention); A01M7/00 A61M11/00 B05B17/06 (Advanced/Non-invention); B05B17/00 (Core/Invention)
International (IPC 1-7): A01M7/00 A61M11/00 B01F17/06 B05B1/08 B05B12/10 B05B17/04 B05B17/06
CPC: B05B17/0646 B05B17/0684
European: B05B17/06B5F B05B17/06B7F2
US: 239/102.2



Family:

Publication number	Publication date	Application number	Application date
AR022547 AA	20020904	AR2000P100552	20000209
AT269760 E	20040715	AT20000906018T	20000209

AU200027588 A1	20000829	AU20000027588	20000209
AU200027588 A5	20000829	AU20000027588	20000209
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CN1346298 A	20020424	CN20008005958	20000209
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ES2222177 T3	20050201	ES20000906018T	20000209
HK1044306 A1	20040625	HK20020105971	20020815
HK1044306 B	20040625	HK20020105971	20020815
JP2002536173 T2	20021029	JP20000598281T	20000209
JP3881847 B2	20070214	JP20000598281T	20000209
KR100430974 B1	20040512	KR20017010076	20010809
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NZ513541 A	20021025	NZ20000513541	20000209
PL196916 B1	20080229	PL20000349914	20000209
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TW510826 B	20021121	TW20000102060	20000407
US6378780 BA	20020430	US20000499601	20000207
WO0047335 A1	20000817	WO2000US03428	20000209
ZA200106534 A	20020808	ZA20010006534	20010808

Priority:

US19990119298P 19990209 US20000499601 20000207 EP20000906018 20000209
EP20030026510 20000209 WO2000US03428 20000209

Probable Assignee: SC JOHNSON AND SON INC

Assignee(s): (std): S C JOHNSON ; S C JOHNSON AND AMP SON INC ; S C JOHNSON AND SON INC ; JOHNSON AND SON INC S C

Assignee(s): MARTENS EDWARD J III ; S C JOHNSON AND SON INC 1525 HOWE STREET RACINE WI 53403 UNITED STATES OF ; SC JOHNSON AND ; SC JOHNSON AND SON INC ; SCJOHNSON AND SON INC ; SON INC ; TOMKINS DAVID A ; SC JOHNSON AND SON INC RACINE

Inventor(s): (std): DAVID A TOMKINS ; EDWARD J MARTENS III ; MARTENS J ; TOMKINS A ; TOMKINS D A ; III ; MARTENS E J ; MARTENS III EDWARD J ; MARTENS EDWARD J ; TOMKINS DAVID A ; MARTENS EDWARD J III

Inventor(s): MARTENS EDWARD JIII ; E J MARTENS ; D A TOMKINS ; DA TOMKINS ; EJ MARTENS ; EDWARD J MARTENS ; MARTENS EDWARD J III RACINE ; TOMKINS DAVID A RACINE

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; BERESKIN AND PARR; RUSCHKE MADGWICK SEIDE AND KOLLEGEN PATENTANWAELTE PATENT ATTORNEY UK PARTG MBB; RUSCHKE HANS EDVARD; WONG YAU CHUN 8 F 35 WONGNEI CHONG ROAD HAPPY VALLEY HONG KONG

Designated states: AT AU BE BR CA CH CN CY DE DK ES FI FR GB GR IE IT JP KR LI LU MC MX NL NZ PL PT SE ZA

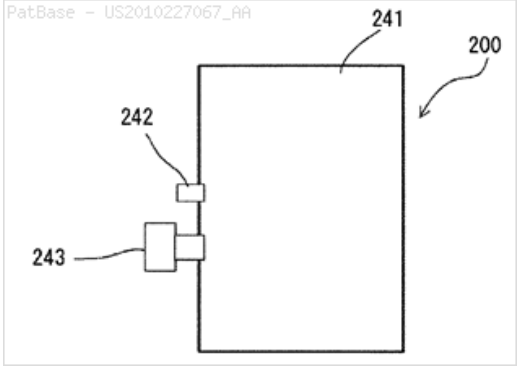
128) Family number: 43348490 (US2010227067A)

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Title: INK-JET RECORDING INK, INK-JET RECORDING INK SET, INK-JET RECORDING INK MEDIA SET, INK CARTRIDGE, INK-JET RECORDING METHOD AND INK-JET RECORDING APPARATUS

Abstract: An ink-jet recording ink including water, a water-soluble organic solvent, a pigment (P1) as a colorant (B), and at least one fluorochemical surfactant selected from compounds represented by Structural Formula (1) below, where R1 denotes any one of a hydrogen atom, an alkyl group and a fluorine-containing group, Rf denotes a fluorine-containing group, and each of x, y and z denotes an integer of 1 or greater.

Classifications:
International (IPC 8-9): B05D5/00 B41J2/01 B41M5/00 B41M5/50 B41M5/52 C08L85/00 C09D11/00 C09D11/02 C09D11/322 C09D11/326 C09D11/38 (Advanced/Invention);
B41M5/50 (Advanced/Non-invention);
B05D5/00 B41J2/01 B41M5/00 B41M5/50 C09D11/00 C09D11/02 (Core/Invention)
International (IPC 1-7): B41M5/00 C09D11/00
CPC: B41M5/502 C09D11/322 C09D11/38
European: B41M5/50B C09D11/322 C09D11/38
US: 106/31.78 106/31.86 106/31.89 106/31.890S 347/100 427/288 427/288P 523/160 523/161 524/104 524/104S 524/307 524/307S 524/610 524/612



Family:

Publication number	Publication date	Application number	Application date
CN101848971 A	20100929	CN200880101460	20081120
CN101848971 B	20130710	CN200880101460	20081120

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EP2167593 B1	20171011	EP20080853371	20081120
IN00345KN2010 A	20100813	IN2010KN00345	20100128
IN261549 B	20140704	IN2010KN00345	20100128
JP2009126964 A2	20090611	JP20070304372	20071126
JP5360455 B2	20131204	JP20070304372	20071126
US2010227067 AA	20100909	US20080671486	20081120
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WO09069721 A1	20090604	WO2008JP71594	20081120

Priority:

JP20070304372 20071126 WO2008JP71594 20081120

Probable Assignee: RICOH CO LTD

Assignee(s): (std): GOTOH AKIHIKO ; MOROHOSHI NAOYA ; NAGAI KIYOFUMI ; NAIGAI KIYOFUMI ; NAMBA MICHIHIKO ; OHSHIMA TOHRU ; RICOH CO LTD ; RICOH KK

Assignee(s): RICOH COMPANY LTD

Inventor(s): (std): NAGAI KIYOFUMI ; OHSHIMA TOHRU ; NAMBA MICHIHIKO ; GOTO AKIHIKO ; OSHIMA SUSUMU ; NANBA MICHIHIKO ; MICHIHIKO NAMBA ; AKIHIKO GOTOH ; TOHRU OHSHIMA ; NAOYA MOROHOSHI ; KIYOFUMI NAGAI ; NAIGAI KIYOFUMI ; MOROHOSHI NAOYA ; GOTOH AKIHIKO

Agent(s): BARZ PETER; HELD STEPHAN; COOPER AND DUNHAM LLP; HIROTA KOICHI

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

129) Family number: 41697492 (US2008085410A)

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Title: COMPOSITION AND ASSOCIATED METHOD

Abstract: A composition includes a decomposition product of a metal precursor. The metal precursor may include a carbamate and one or more metal selected from the group consisting of silver, gold, copper, and zinc. The decomposition product may include a metal nanoparticle. The metal nanoparticle may be present in an amount that is sufficient to render the composition electrically conductive, thermally conductive, or both electrically and thermally conductive. An associated article and method are provided.

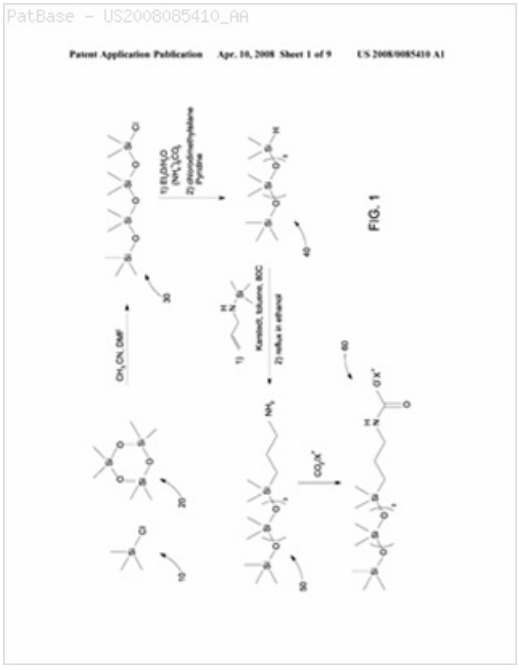
Classifications:

International (IPC 8-9): B05D5/12 B22F1/00 B22F9/24 B32B7/12 H01B1/22 H05K3/10 (Advanced/Invention);
B05D5/12 B22F1/00 B22F9/16 B32B7/12 H01B1/22 H05K3/10 (Core/Invention)

CPC: B22F2001/0033 H05K3/105 B22F1/0018 B22F1/0025 B22F9/24 B22F2001/0037 B22F2998/00 B22F2999/00 B82Y30/00 C23C18/08 C23C18/14 H01B1/22 H05K2201/0257 H05K2203/107 H05K2203/121 Y10T428/2865

European: B22F1/00A2B4 B22F1/00A2B4F B22F9/24 B82Y30/00 C23C18/08 C23C18/14 H01B1/22 H05K3/10D L22F1/00A2B4X L22F998/00 L22F999/00 T05K201/02A2E T05K203/10E T05K203/12A

US: 252/503 252/503S 427/122 427/122S 428/355CP



Family:

Publication number	Publication date	Application number	Application date
US2008085410 AA	20080410	US20060539411	20061006
WO08127282 A2	20081023	WO2007US21442	20071005
WO08127282 A3	20090416	WO2007US21442	20071005

Priority:

US20060539411 20061006

Probable Assignee: GENERAL ELECTRIC CO

Assignee(s): (std): GEN ELECTRIC ; GIBSON DAVID ALEXANDER ; MOMENTIVE PERFORMANCE MAT INC ; OLSON ERIC JAMES CRANE ; SIMONE DAVID LOUIS

Assignee(s): MOMENTIVE PERFORMANCE MATERIALS INC ; GENERAL ELECTRIC CO ; GENERAL ELECTRIC COMPANY

Inventor(s): (std): GIBSON DAVID ALEXANDER ; OLSON ERIC JAMES CRANE ; SIMONE DAVIDE LOUIS ; SIMONE DAVID LOUIS

Agent(s): GENERAL ELECTRIC COMPANY, GLOBAL RESEARCH; GENERAL ELECTRIC CO GLOBAL RESEARCH; WHEELOCK KENNETH S

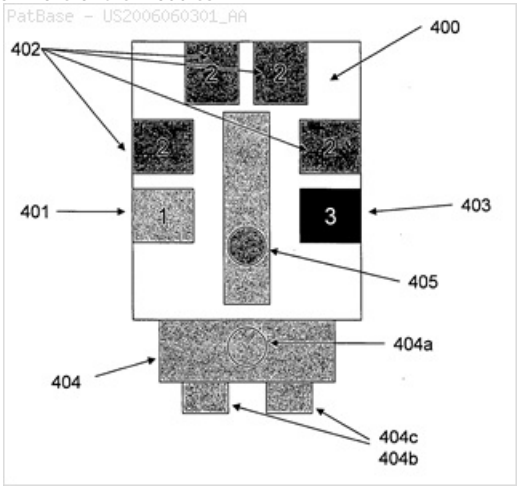
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY

CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD 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

130) Family number: 32751493 (US2006060301A)

Title: SUBSTRATE PROCESSING USING MOLECULAR SELF-ASSEMBLY

Abstract: A system for molecular self-assembly referred to herein as a "molecular self-assembly system (MSAS)" includes at least one interface configured to receive at least one substrate. The MSAS also includes at least one molecular self-assembly module coupled to the interface. The MSAS can also include one or more of pre-processing modules, other molecular self-assembly processing modules, and post-processing modules, and may include any number, combination, and/or type of other modules. Each module of the MSAS can contain at least one of a number of different processes as appropriate to a processing configuration of the MSAS. The MSAS also includes at least one handler coupled to the interface and configured to move the substrate between the interface and one or more of the modules.



Classifications:

International (IPC 8-9): H01L21/02 H01L21/768 A23B4/12 A23J3/34 B01J19/00 B05C5/00 B05D3/10 B05D5/06 B05D5/12 B08B3/04 B44C1/22 B82Y30/00 C23C14/00 C23C14/54 C23C16/00 C23C16/44 C23C16/455 C23C16/458 C23C16/46 C23C16/50 C23C16/52 C23F1/00 C23F1/02 C40B30/02 C40B40/18 C40B50/00 C40B60/00 F03B11/02 F28F7/00 G01N33/20 G01N37/00 G01R31/26 G05B19/418 H01J37/32 H01L21/00 H01L21/20 H01L21/288 H01L21/302 H01L21/306 H01L21/31 H01L21/311 H01L21/312 H01L21/3205 H01L21/336 H01L21/44 H01L21/4763 H01L21/56 H01L21/66 H01L21/67 H01L21/677 H01L21/76 H01L23/12 H01L23/48 H01L23/52 H01L23/532 H01L23/538 H01L23/58 H01L29/00 H01L29/40 H01L31/18 H05H1/24 (Advanced/Invention);
G05B19/418 H01L21/00 H01L21/302 H01L21/311 H01L21/32 H01L21/67 (Advanced/Non-invention);
A23B4/12 A23J3/00 C23C16/00 C23C16/52 C23F1/00 C40B30/02 C40B40/18 C40B50/00 F28F7/00 G01N33/20 G01N37/00 G01R31/26 H01L21/00 H01L21/02 H01L21/66 H01L21/70 H01L23/52 H01L23/58 H01L29/00 (Core/Invention);
G05B19/418 H01L21/00 H01L21/02 H01L21/76 H01L21/768 (Core/Non-invention)

CPC: B01J2219/0043 B01J2219/00443 B01J2219/00536 B01J2219/0075 H01L21/67294 H01L21/3148 H01L21/31633 H01L21/31695 H01L21/3185 H01L21/288 B82Y10/00 H01L21/76829 H01L21/02112 H01L21/02123 H01L21/3105 H01L21/321 H01L21/76826 H01L21/67051 H01L21/67126 B01J19/0046 B01J2219/00286 B01J2219/00317 B01J2219/00328 B01J2219/00333 B01J2219/00351 B01J2219/00364 B01J2219/00369 B01J2219/00495 B01J2219/00527 B01J2219/00603 B01J2219/00659 B01J2219/00691 H01L22/10 H01L21/67005 H01L22/34 H01L21/67028 H01L21/6708 H01L21/67207 H01L21/67745 H01L21/76841 H01L21/76871 H01L22/26 H01L21/32051 B82Y30/00 H01L21/6715 H01L21/76849 H01L2924/0002 Y10S438/907 Y10S438/913 Y10T137/8593 H01L21/31 H01L21/02203 H01L21/02118 H01L21/02167 H01L21/0217 H01L21/7685 H01L21/76834 H01L2924/00 H01L21/67011 C23C16/4412 C23C16/45544 C23C16/4557 C23C16/45578 C23C16/4583 C23C16/46 H01J37/32449 H01J37/32513 H01J37/32724 H01J2237/166 H01J2237/20228 H01J2237/20235 H01L21/31058 H01L22/20 C23C14/54 C23C16/52 H01L22/14 Y02P80/40 H01L21/02183

European: B01J19/00C B81C1/00C2A B81C1/00F2Z B82Y10/00 B82Y30/00 C23C14/54 C23C16/52 H01L21/288 H01L21/312B H01L21/312L H01L21/3205M H01L21/66P H01L21/677B4 H01L21/67S H01L21/67S2D4W4 H01L21/67S2M H01L21/67S2V H01L21/67S2Z10 H01L21/67S8H H01L21/768B10 H01L21/768B10S H01L21/768B8P H01L21/768C3 H01L21/768C3B8 H01L21/768C3C H01L21/768C3S H01L22/20 H01L22/34 H01L23/544T L01J219/00C10D4 L01J219/00C2B10B L01J219/00C2B2D L01J219/00C2B4D2B L01J219/00C2B4H4 L01J219/00C2D L01J219/00C2D24B L01J219/00C2D26F L01J219/00C2D4 L01J219/00C2D4B2 L01J219/00C2K L01J219/00C2L8 L01J219/00C2L8H L01J219/00C4L L01J219/00C4L12 L01J219/00C6F4 L82T201/01 T01L21/314H T01L21/316B8 T01L21/316P T01L21/318B T01L21/66M4 T01L21/67S2D4 T01L21/67S2D8W4 T01L22/14

US: 1/1 118/407 118/412 118/696 118/712 118/719 118/719S 118/725 118/725S 118/729 118/733 118/75 134/21 134/21S 137/561R 141/1 141/11 156/345.1 156/345.100S 156/345.18 156/345.22 156/345.24 156/345.240S 156/345.26 156/345.260P 156/345.27 156/345.270S 156/345.33 156/345.52 156/345.54 165/80.2 165/80.200P 204/298.25 204/298.26 216/11 216/11P 216/24 216/24P 216/37 216/37P 257/ E2.641 257/48 257/48P 257/499 257/499P 257/499S 257/734 257/734P 257/741 257/750 257/751 257/751P 257/758 257/759 257/760 257/763 257/764 257/773 257/773P 257/E21.001 257/E21.001S 257/E21.021 257/E21.023 257/E21.024 257/E21.025 257/E21.26 257/E21.260S 257/E21.265 257/E21.265S 257/E21.273 257/E21.273S 257/E21.277 257/E21.277S 257/E21.293 257/E21.293S 257/E21.295 257/E21.295S 257/E21.476 257/E21.476S 257/E21.502 257/E21.502S 257/E21.524 257/E21.53 257/E21.530S 257/E21.54 257/E21.540S 257/E21.575 257/E21.577 257/E21.584 257/E21.584S 257/E21.586 257/E21.641 257/E23.001 257/E23.001S 257/E23.01 257/E23.010S 257/E23.141 257/E23.142 257/E23.167 257/E23.169 257/E23.169S 257/E23.179 257/E23.179S 257/E31.11 257/E31.110S 257/E43.005 427/162 427/162S 427/248.1 427/248.100S 427/304 427/305 427/306 427/569 427/569S 427/58 427/58S 427/8 427/8S 427/98.5 427/98.6 436/518 436/518P 438/1 438/124 438/124P 438/14 438/14P 438/16 438/16P 438/1S 438/297 438/400 438/400S 438/460 438/460S 438/478 438/485 438/493 438/5 438/57 438/57P 438/597 438/597P 438/622 438/622S 438/624 438/624S 438/627 438/641 438/643 438/653 438/654 438/656 438/665 438/665P 438/671 438/674 438/677 438/678 438/680 438/685 438/687 438/687P 438/688 438/689 438/689S 438/694 438/694S 438/759 438/761 438/761S 438/763 438/763S 438/780 438/800 438/800P 438/907 438/907S 438/913 438/945 506/23 506/32 506/33 506/40 702/81 702/81P

Family:

Publication number	Publication date	Application number	Application date
CN101421433 A	20090429	CN200780012793	20070212
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Priority:

US20040610937P 20040917	US20040630485P 20041122	US20050132817 20050518
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Probable Assignee: INTERMOLEUCLAR INC

Assignee(s): (std): BOUSSIE THOMAS ; BOUSSIE THOMAS R ; CHIANG TONY P ; DUONG ANH ; FRESCO ZACHARY ; GORER ALEXANDER ; MALHOTRA SANDRA G ; LAZOVSKY DAVID E ; INTERMOLECULAR INC ; LAZOVSKY DAVID ; KUMAR NITIN ; LANG CHI I ; PINTO GUSTAVO A ; PINTO GUSTAVO ; WEINER KURT ; SYMYX TECHNOLOGIES INC ; MCWAID THOMAS H ; GORER SASHA ; PINTO GUS ; TONG JINHONG ; WEINER KURT H

Assignee(s): ROLLED UP GAMING PARTNERS ; INTERMOLEUCLAR INC ; INTERMOLECULAR INC US

Inventor(s): (std): CHIANG TONY P ; MALHOTRA SANDRA G ; LAZOVSKY DAVID E ; PINTO GUSTAVO A ; BOUSSIE THOMAS R ; GORER ALEXANDER ; MCWAID THOMAS H ; WEINER KURT ; GORER SASHA ; BOUSSIE THOMAS ; PINTO GUS ; PINTO GUSTAVO ; LAZOVSKY DAVID ; SASHA GORER ; KURT WEINER ; THOMAS BOUSSIE ; GUS PINTO ; KUMAR NITIN ; DUONG ANH ; FRESCO ZACHARY ; LANG CHI I ; TONG JINHONG ; WEINER KURT H

Inventor(s): CHIANG TONY ; MCWAID THOMAS ; MALHOTRA SANDRA

Agent(s): APPELT CHRISTIAN W; KITA AOYAMA INT PATENT BUREAU; COURTNEY STANIFORD AND GREGORY LLP; INTERMOLECULAR INC C O COURTNEY STANIFORD AND GREGORY LLP; MARTINE PENILLA GENCARELLA LLP; PATENT LAW GROUP LLP; KALI LAW GROUP PC; LEGAL DEPARTMENT; MARTINE PENILLA AND GENCARELLA LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR 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 MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

131) Family number: 38293503 (US2007228085A)

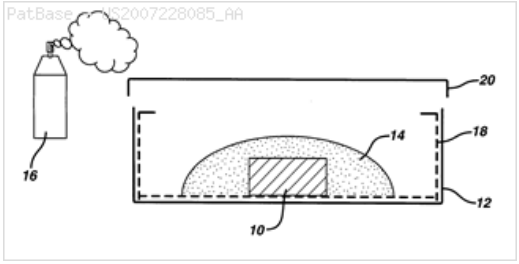
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Title: DISPENSER FOR DELIVERING FOAM AND MIST

Abstract: A dispenser for dispensing a mist or a foam includes a solution in the dispenser, a foaming nozzle on the dispenser for dispensing the foam from the solution and a misting nozzle on the dispenser for dispensing the mist from the solution. The solution can include hydrogen peroxide. Preferably, instructions are provided to foam the solution onto a contaminated surface of a medical instrument prior to cleaning of the instrument and to maintain the foam in contact with the surface until such time as the instrument is cleaned, and to apply the mist of the hydrogen peroxide solution into a lumen of the instrument prior to cleaning of the instrument.

Classifications:

International (IPC 8-9): A61M11/00 B05B1/12 A01N25/16 A61B19/00 A61L2/00 A61L2/18 A61L2/235 B05B1/02 B05B1/14 B05B11/00 B05B11/02 B05D7/24 B08B3/00 B08B3/02 B08B3/08 B65D83/14 B65D83/30 B65D83/38 B65D83/68 B65D83/76 B67D3/00 C11D11/00 (Advanced/Invention);
A61L101/22 A61L2/22 A61L2/235 (Advanced/Non-invention);
A01N25/16 A61B19/00 A61L2/00 A61L2/16 A61L2/18 A61M11/00 B05B1/00 B05B1/02 B05B1/14 B05B11/00 B05B11/02 B05D7/24 B08B3/00 B08B3/02 B08B3/08 B65D83/14 B65D83/28 B65D83/38 B65D83/76 B67D3/00 C11D11/00 (Core/Invention);
A61L2/22 (Core/Non-invention);
A61L B05B (Subclass/Invention)



International (IPC 1-7): A61L2/16 A61L2/235 B08B3/00

CPC: A61B90/70 C11D17/041 A61L2/22 B05B7/0018 B05B11/0005 B08B3/003 C11D3/0094 C11D3/3942 C11D3/48 A61L2/235

European: A61L2/22 A61L2/235 B08B3/00F C11D17/04B C11D3/00B19 C11D3/39D C11D3/48 K61B19/34 L05B11/00B L05B7/00C

US: 222/251 222/478 222/635

Family:

Publication number	Publication date	Application number	Application date
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ZA200702714 A	20090826	ZA20070002714	20070330

Priority:

US20060395603 20060331 CA20072583626 20070330

Probable Assignee: ETHICON INC

Assignee(s): (std): ETHICON INC ; JOHNSON and JOHNSON ; LIN SZU MIN ; PLATT ROBERT C ; TSENG CHUN CHIEH J

Inventor(s): (std): PLATT ROBERT C ; LIN SZU MIN ; TSENG CHUN CHIEH J ; TSENG CHUN CHIEN J ; SZU MIN LIN

Inventor(s): PLATT ROBERT ; TSENG CHUN CHIEH ; ROBERT C PLATT ; CHUN CHIEH J TSENG ; CHUN CHIEN J TSENG

Agent(s): CALLINANS; FISHER ADAMS KELLY CALLINANS; SPRUSON AND FERGUSON; OGILVY RENAULT LLP SENCRL SRL; JIMENA ESCOBAR URIBE; PHILIP S JOHNSON JOHNSON AND JOHNSON

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

132) Family number: 43710506 (WO09111612A1)

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Title: AEROSOLIZATION DEVICE

Abstract: An aerosolization device (10) comprising a nebulizer body(12), housing an aerosol generator (14), and comprising a fluid pathway for liquid to impinge upon the aerosol generator, and for aerosolized liquid generated thereby to be conducted to a patient. The body includes a liquid supply cartridge (24) and actuator means (70) for delivering liquid to the aerosol generator. The device further includes an aerosolized liquid flow path (28,29) comprising at least one air inlet means (86) and at least one exhalation exhaust means (90). A patient interface means (27) conducts the aerosolized liquid to the patient, and a power supply and control means is provided to power and control operation of the aerosol generator.

Classifications:

International (IPC 8-9): A61M11/00 B05B17/06 (Advanced/Invention); A61M11/00 B05B17/04 (Core/Invention)

CPC: A61M11/005 A61M15/0015 A61M15/0018 A61M15/0085 A61M15/0086 A61M15/025 A61M16/06 A61M16/1065 A61M2016/0021 A61M2016/0027 A61M2202/30 A61M2205/273 A61M2205/82 B05B17/0646

European: A61M11/00F B05B17/06B5F K61M15/00A11B K61M15/00A12 K61M15/00F K61M15/00K K61M15/02A K61M16/00A10 K61M16/00A8B2 K61M16/06 K61M16/10F2A K61M202/30 K61M205/27A K61M205/82

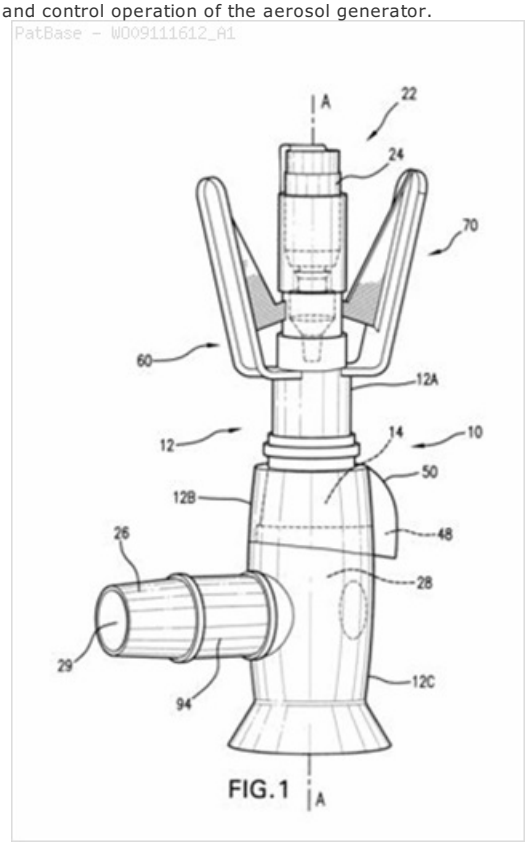


FIG.1

Family:

Publication number	Publication date	Application number	Application date
WO09111612 A1	20090911	WO2009US36135	20090305

Priority:

US20080068577P 20080307

Probable Assignee: NOVARTIS AG

Assignee(s): (std): FINK JAMES ; NOVARTIS AG

Inventor(s): (std): FINK JAMES

Agent(s): KUNG JOHN W

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

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133) Family number: 33376508 (US2003130114A)

Title: METHOD FOR THE DEPOSITION OF AN ELECTROCATALYST LAYER

Abstract: Electrocatalyst powders and methods for producing electrocatalyst powders, such as carbon composite electrocatalyst powders. The powders have a well-controlled microstructure and morphology. The method includes forming the particles from an aerosol of precursors by heating the aerosol to a relatively low temperature, such as not greater than about 400 degrees centigrade

Classifications:

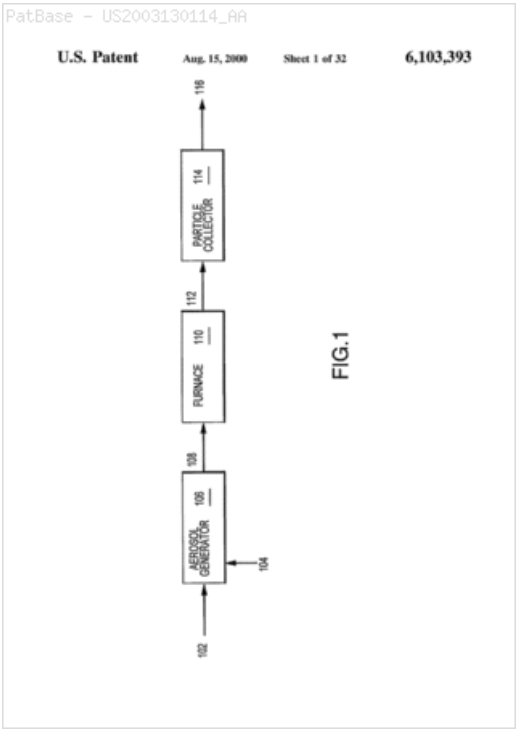
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International (IPC 1-7): B01J21/18 H01M6/00

CPC: B01J21/18 B01J2/003 B01J2/006 B01J2/02 B01J2/04 B01J2/16 B01J2/18 B01J13/02 B01J19/10 B01J19/2405 B01J23/00 B01J23/34 B01J23/40 B01J31/06 B01J35/023 B01J35/08 B01J37/0054 B01J37/343 B01J2219/00112 B01J2219/00155 B01J2219/00159 B01J2219/00162 B01J2219/00166 B01J2219/00171 B01J2219/00186 B22F1/0018 B22F1/02 B22F1/025 B22F9/02 B22F9/026 B22F9/24 B22F2998/00 B22F2999/00 B24B37/044 B82Y30/00 C01B13/18 C01B13/185 C01B17/20 C01G15/006 C01G23/003 C01G23/006 C01G25/00 C01P2002/60 C01P2002/70 C01P2004/03 C01P2004/32 C01P2004/34 C01P2004/50 C01P2004/52 C01P2004/61 C01P2004/62 C01P2004/80 C01P2006/10 C01P2006/22 C01P2006/60 C01P2006/80 C09G1/02 C09K3/1436 C09K3/1463 C09K11/025 C09K11/0805 C09K11/0877 C09K11/562 C09K11/565 C09K11/567 C09K11/595 C09K11/625 C09K11/671 C09K11/7718 C09K11/7731 C09K11/7734 C09K11/7746 C09K11/7771 C09K11/7774 C09K11/7789 C09K11/7797 C22C1/1026 C22C29/00 C22C32/0084 C22C32/0089 H01G4/0085 H01J29/20 H01L21/3212 H01L23/49883 H01M4/8605 H01M4/8807 H01M4/8825 H01M4/8867 H01M4/90 H01M4/9016 H01M4/9083 H01M4/92 H01M4/923 H01M4/926 H01M8/1004 H01M12/08 H01M2008/1095 H05K1/095 H01L2924/0002 Y10T29/49108 Y10T428/12181 Y10T428/12535 Y10T428/12625 Y10T428/12875 Y10T428/12896 B01J35/002 B01J35/006 B01J35/1014 B01J35/1061 Y02E60/128

European: B01J13/02 B01J19/10 B01J19/24B B01J2/00B B01J2/00D B01J2/02 B01J2/04 B01J2/16 B01J2/18 B01J21/18 B01J23/34 B01J23/40 B01J35/02B B01J35/10 B01J37/00B4D B22F1/00A2B4 B22F1/02 B22F1/02B B22F9/02 B22F9/02S B22F9/24 B24B37/04B1 B82Y30/00 C01B13/18 C01B13/18B C01B17/20 C01G15/00D C01G23/00F C01G23/00F4 C01G25/00 C09G1/02 C09K11/02B C09K11/08B C09K11/08H C09K11/56B C09K11/56B2 C09K11/56B3 C09K11/59B2 C09K11/62B3 C09K11/67B C09K11/77M2D C09K11/77N2D C09K11/77N6 C09K11/77P2D C09K11/77S2H4 C09K11/77S6 C09K11/77T12 C09K11/77T2H4 C09K3/14C C09K3/14D2 C22C1/10B C22C29/00 C22C32/00E C22C32/00G H01G4/008F H01J29/20 H01L23/498M4 H01M4/86B H01M4/88B2 H01M4/88G H01M4/88G16 H01M4/90 H01M4/90S2 H01M4/92 H01M4/92C H01M4/92S2 L01J219/00B10 L01J219/00B18 L01J219/00B2D6F L01J219/00B2P4 L01J219/00B2Z L01J219/00B4 L01J219/00B6B L01J23/00 L01J31/06 L01J35/08 L01J37/34B4 L22F998/00 L22F999/00 M01P2/60 M01P2/70 M01P4/03 M01P4/32 M01P4/34 M01P4/50 M01P4/52 M01P4/61 M01P4/62 M01P4/80 M01P6/10 M01P6/22 M01P6/60 M01P6/80 T01L21/321P2 T01M12/08 T01M4/90C T01M8/10B2 T01M8/10P T05K1/09D2 Y02E60/52B2B

US: 257/E23.075 257/E23.075S 29/623.1 29/623.100S 427/376.1 427/376.2 427/383.1 502/180 502/182 502/182S 502/185 502/185S



Family:

Publication number	Publication date	Application number	Application date
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Priority:

US19980028029 19980224 US19980028277 19980224 US19980030057 19980224
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Probable Assignee: CABOT CORP

Assignee(s): (std): ATANASSOV PLAMEN ; ATANASSOVA PAOLINA ; BHATIA RIMPLE ; CABOT CORP ; DERICOTTE DAVID E ; HAMPDEN SMITH MARK J ; KODAS TOIVO T ; KUNZE KLAUS ; NAPOLITANO PAUL

Inventor(s): (std): HAMPDEN SMITH MARK J ; KODAS TOIVO T ; ATANASSOV PLAMEN ; KUNZE KLAUS ; NAPOLITANO PAUL ; BHATIA RIMPLE ; DERICOTTE DAVID E ; ATANASSOVA PAOLINA

Agent(s): MARSH FISCHMANN AND BREYFOGLE LLP

134) Family number: 30996508 (US3920723A)

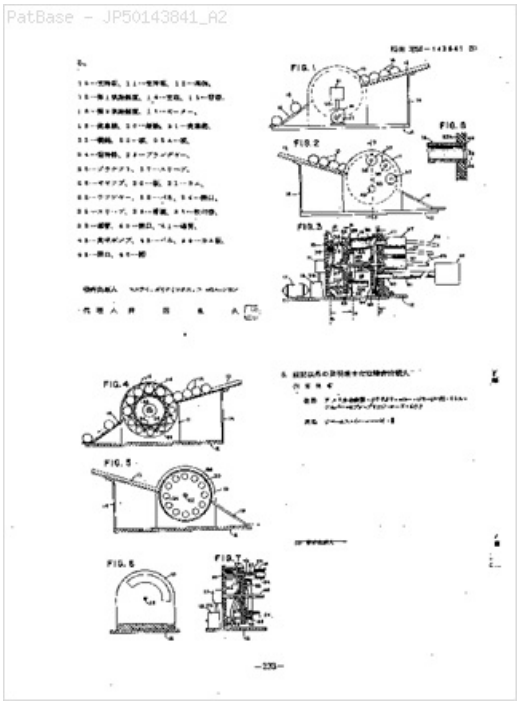
Title: 4-OXAPROSTAGLANDIN E-TYPE COMPOUNDS

Abstract: This invention is a group of 3-and 4-oxa PG-type compounds, and processes for making them. These compounds are useful for a variety of pharmacological purposes, including antiulcer, inhibition of platelet aggregation, increase of nasal patency, labor inducement at term, and wound healing. Claims, No Drawings

Classifications:

International (IPC 8-9): A61K31/19 A61K31/215 A61K31/22 B05B5/08 B05C19/00 B05D1/06 B05D7/22 C07C301/00 C07C303/28 C07C309/65 C07C35/27 C07C401/00 C07C405/00

C07C67/00 C07D309/12 C07D317/26 C07D317/30 C07F7/18 C07F9/40 C12N9/18 (Advanced/Invention);
C07C401/00 C07C67/00 (Advanced/Non-invention);
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European: 124CA6 124CA6E4 124CA7G C07C35/27 C07C405/00 C07C405/00B2 C07C405/00B4 C07D309/12 C07D317/30 C07F9/40A1 C12N9/18
US: 260/468D 544/107 549/312 549/415 549/416 554/214 554/217 560/121 560/231 562/501 562/503 987/160



Family:

Publication number	Publication date	Application number	Application date
AU197465165 A1	19750807	AU19740065165	19740204
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CH571486 A	19760115	CH19700011473	19700729
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JP50028950 B4	19750919	JP19700065821	19700729
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US3920723 A	19751118	US19740461543	19740417
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US3922298 A	19751125	US19740461603	19740417
US3923861 A	19751202	US19740461508	19740417
US3923862 A	19751202	US19740461489	19740417
US3923863 A	19751202	US19740461496	19740417
US3923864 A	19751202	US19740461498	19740417
US3923865 A	19751202	US19740461597	19740417
US3936487 A	19760203	US19740461483	19740417
US3944593 A	19760316	US19740461497	19740417
ZA7004099 A	19710331	ZA19700004099	19700616

Priority:

GB19690038073 19690729
DE19702036471 19700723
BE19700092177 19700729
US19730332079 19730213
AU19740065165 19740204
US19740461583 19740417
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DK19700003917 19700728
US19720272444 19720717
US19730332201 19730213
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US19740461483 19740417
US19740461597 19740417
AU19700016530 19700618
FR19700027783 19700728
US19730332279 19730213
US19730332067 19730213
US19740461543 19740417
US19740461496 19740417
US19740461497 19740417

Probable Assignee: UPJOHN CO

Assignee(s): (std)**:** THE UPJOHN CY 301 HENRIETTA STREET KALAMAZOO MICHI ; UPJOHN CO

Assignee(s): UPJOHN CY US ; UPJOHN CY ; UPJOHN COMPANY ; UPJOHN CY 301 HENRIETTA STREET KALAMAZOO MICHIGAN EUA ; THE UPJOHN CY 301 HENRIETTA STREET KALAMAZOO MICHIGAN E U A ; THE UPJOHN CO ; THE UPJOHN COMPANY

Inventor(s): (std): NELSON N ; NELSON NORMAN A ; NELSON N A ; N A NELSON ; NELSON NORMAN ALLAN ; NA NELSON ; NORMAN ALLAN NELSON

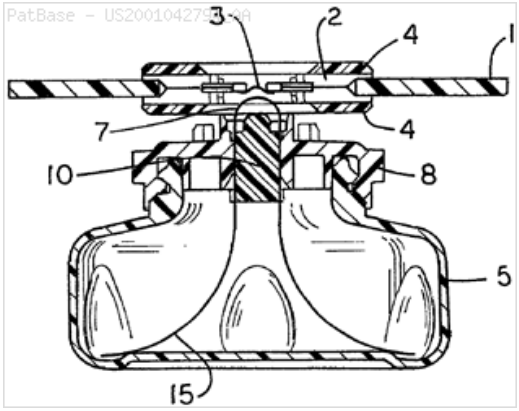
Inventor(s): ALLAN NELSON NORMAN

135) Family number: 52205511 (US2001042794A)

Title: Attachment method for piezoelectric elements

Abstract: Disclosed herein is a piezoelectric liquid delivery system or atomizer for production of droplets of liquid or liquid suspensions by means of a battery operated atomizer utilizing an orifice plate in communication with a ceramic piezoelectric element. By use of solder joining to bond the orifice plate to the piezoelectric element, and subsequent repolarization of the piezoelectric element if necessary, superior results are achieved.

Classifications:
International (IPC 8-9): A61L9/14 B05B B05B17/00 B05B17/04 B05B17/06 (Advanced/Invention); B05B17/06 (Advanced/Non-invention)
International (IPC 1-7): B05B1/08 B05B17/04 B05B17/06 B05B3/04 H01L41/09 H01L41/22
CPC: A01M1/205 A61L9/14 B05B17/0646 B05B17/0684
European: A01M1/20C2L2 A61L9/14 B05B17/06B5F B05B17/06B7F2
US: 239/102.1 239/102.2 239/102.200P 239/4



Family:

Publication number	Publication date	Application number	Application date
AR022858 AA	20020904	AR2000P101008	20000307
AT284759 E	20050115	AT20000914833T	20000306
AU200036169 A1	20000928	AU20000036169	20000306
AU200036169 A5	20000928	AU20000036169	20000306
AU760096 B2	20030508	AU20000036169	20000306
BRPI0008831 A	20011218	BR2000PI08831	20000306
BRPI0008831 B1	20090113	BR2000PI08831	20000306
CA2364248 AA	20010906	CA20002364248	20000306
CA2364248 C	20060829	CA20002364248	20000306
CN1142034 C	20040317	CN20008006453	20000306
CN1347349 A	20020501	CN20008006453	20000306
DE60016720 D1	20050120	DE20006016720T	20000306
DE60016720 D1	20050120	DE20006016720	20000306
DE60016720 T2	20050512	DE20006016720T	20000306
EP1159078 A1	20011205	EP20000914833	20000306
EP1159078 B1	20041215	EP20000914833	20000306
HK1043955 A1	20040910	HK20020105513	20020726
HK1043955 B	20040910	HK20020105513	20020726
JP2002538001 T2	20021112	JP20000603818T	20000306
KR100474199 B1	20050308	KR20017011404	20000306
KR20020003202 A	20020110	KR20017011404	20000306
MXPA01009046 A1	20020830	MX2001PA09046	20000306
NZ514108 A	20010928	NZ20000514108	20000306
PL194683 B1	20070629	PL20000350818	20000306
PL350818 A1	20030210	PL20000350818	20000306
TW526098 B	20030401	TW20000104075	20000526
US2001042794 AA	20011122	US20000518882	20000306
US6382522 BB	20020507	US20000518882	20000306
WO0053337 A1	20000914	WO2000US05833	20000306
ZA200107525 A	20021127	ZA20010007525	20010912

Priority:
US19990123208P 19990308 US20000518882 20000306 WO2000US05833 20000306

Probable Assignee: JOHNSON AND SON INC S C

Assignee(s): (std): JOHNSON AND SON INC S C ; S C JOHNSON ; S C JOHNSON AND AMP SON INC

Assignee(s): SCJOHNSON AND SON INC ; S C JOHNSON AND SON INC 1525 HOWE STREET RACINE WISCONSIN 53403 5011 UNITED ; TOMKINS DAVID A ; MARTENS EDWARD J ; MARTENS EDWARD J III ; NAVIN ERIC R ; S C JOHNSON AND SON INC ; SC JOHNSON AND SON INC ; CLARK GEORGE A

Inventor(s): (std): MARTENS III EDWARD J ; MARTENS EDWARD J ; MARTENS J ; CLARK A ; NAVIN R ; TOMKINS A ; CLARK GEORGE A ; TOMKINS DAVID A ; NAVIN ERIC R ; MARTENS EDWARD J III

Inventor(s): III EDWARD J MARTENS ; EDWARD J MARTENS III ; DAVID A TOMKINS ; GEORGE A CLARK ; ERIC R NAVIN

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; BERESKIN AND PARR LLP

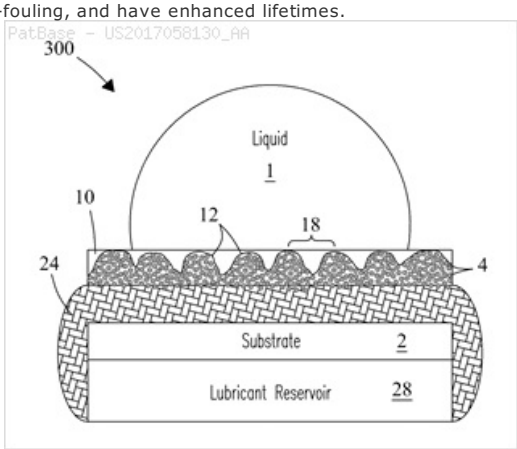
Designated states: AT AU BE BR CA CH CN CY DE DK ES FI FR GB GR IE IT JP KR LI LU MC MX NL NZ PL PT SE ZA

136) Family number: 65075516 (US2017058130A)

Title: PAINTABLE HYDROPHOBIC AND LUBRICANT-INFUSED SURFACE COATINGS AND PROCESSES FOR MAKING AND USING SAME

Abstract: Compositions and processes are disclosed for forming hydrophobic coatings and lubricant-infused surface coatings. Coatings may be applied to various substrates without prior chemical or temperature treatment of the substrates and over large and irregular surfaces. Coatings are self-healing, anti-fouling, and have enhanced lifetimes.

Classifications:
International (IPC 8-9): B05D1/12 B05D1/36 B05D5/08 B08B17/06 C09D183/04 C09D5/00 C09D7/12 C09D7/61 C10M105/76 C10M107/38 (Advanced/Invention);
C08K3/36 C08K7/26 (Advanced/Non-invention)
CPC: B05D1/12 C09D7/61 A01K1/015 A01K1/02 B05D1/02 B05D1/28 B05D3/0254 B05D5/08 B05D2350/63 B05D2350/65 B05D2518/12 B05D2601/22 C08K3/08 C08K3/36 C08K7/26 C09D5/00 C09D5/1681 C09D7/40 C09D183/04 C10M105/76 C10M107/50 C10M2201/105 C10M2207/021 C10M2229/041 C10N2230/16 C10N2240/66 C10N2250/18 B08B17/065 B63B59/04 C10M107/38 C10M2213/003 C10M2227/003 C10N2230/12 C10N2230/26
US: 1/1 428/144 508/106



Family:

Publication number	Publication date	Application number	Application date
US2017058130 AA	20170302	US20150839471	20150828
US2018094204 AA	20180405	US20170829636	20171201
US10221321 BB	20190305	US20150839471	20150828
WO17040296 A1	20170309	WO2016US49019	20160826

Priority:
US20150839471 20150828 WO2016US49019 20160826 US20170829636 20171201

Probable Assignee: BATTELLE MEMORIAL INST

Assignee(s): (std): BATTELLE MEMORIAL INST

Assignee(s): US DEPARTMENT OF ENERGY

Inventor(s): (std): BONHEYO GEORGE T ; JETERS ROBERT T ; LARIMER CURTIS J ; BARRETT CHRISTOPHER A ; ADDLEMAN RAYMOND S ; WINDER ERIC M

Agent(s): KLARQUIST SPARKMAN LLP; CALDWELL LISA M

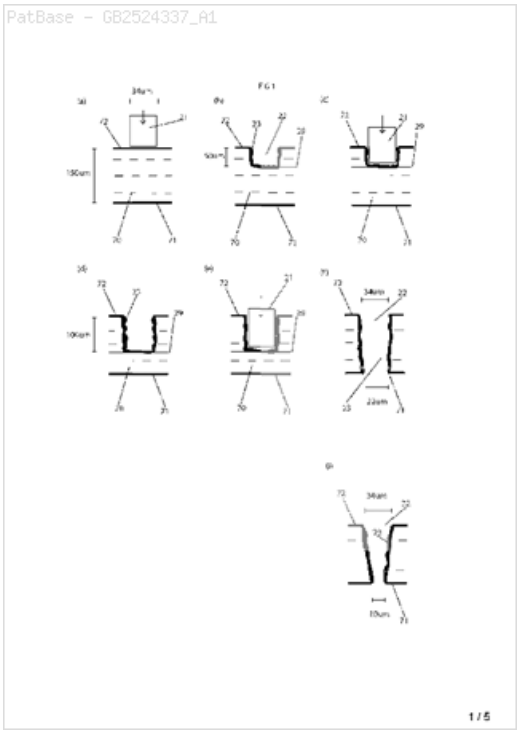
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX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

137) Family number: 56479517 (GB2524337A)

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Title: A METHOD OF FORMING A MEMBRANE, A MEMBRANE AND AN ULTRASONIC ATOMISER USING THE MEMBRANE

Abstract: A membrane (70 figure 1) for use in an ultrasonic atomiser comprising a plurality of orifices in a selected pattern with each orifice passing through the membrane from the front surface to the rear surface. The orifices are either a nozzle or a perforation, and the membrane consisting of at least 1 nozzle and at least 1 perforation; wherein the perforations have a ratio of entry diameter to exit diameter of less than 5 and a textured internal surface; and wherein the nozzles comprise; a cylindrical section having a smooth internal surface and, the diameter of the cylindrical section being the diameter of the perforations at the front surface plus at least twice the maximum peak height of the recast melt on the internal surface of the perforations. There is a neck section having a textured internal surface and which is shorter in length than the body section; and a ledge at the intersection of the body and neck sections. Also claimed is a method of forming orifices in a membrane.
Classifications:
International (IPC 8-9): B05B17/06 B23K26/38 (Advanced/Invention)
CPC: B05B17/0638 B23K26/389 B23K26/384 B05B17/0646 B23K26/3576



Family:

Publication number	Publication date	Application number	Application date
GB201404675 A0	20140430	GB20140004675	20140317
GB201409716 A0	20140716	GB20140009716	20140602
GB2508558 A1	20140604	GB20140004675	20140317
GB2524337 A1	20150923	GB20140009716	20140602

Priority:

GB20140004675 20140317

Probable Assignee:	GIBBONS ANTHONY
Assignee(s): (std)**:**	GIBBONS ANTHONY
Assignee(s):	ANTHONY GIBBONS
Inventor(s): (std)**:**	GIBBONS ANTHONY
Inventor(s):	ANTHONY GIBBONS

138) Family number: 12177521 (US5212365A)

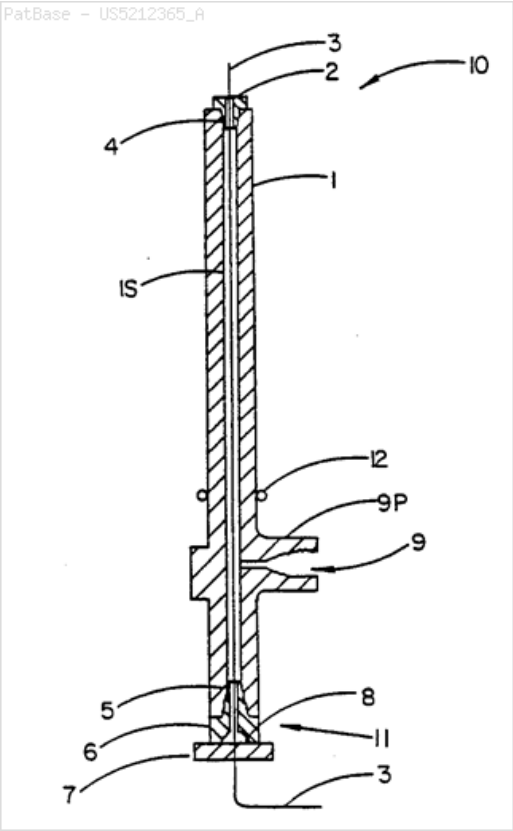
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Title: Direct injection micro nebulizer system and method of use

Abstract: A direct injection micro nebulizer system for use in nebulizing sample solutions in close proximity to sample analysis systems, is disclosed. The present invention offers design features and utility not available in previously known micro nebulizer systems. The present invention, preferrably, provides single piece unibody construction of the primary body element, and construction of all element thereof from nonmetallic, hydrofloric acid resistant materials. The present invention allows easy cleaning and adjustment of element relationships which are necessary to proper operation of direct injection micro nebulizer systems. Use of separate or integrated protective sleeving on otherwise crushable sample solution delivery tubing is also disclosed. Use of the direct injection micro nebulizer with standard and specially designed inductively coupled plasma torches, as well as other sample analysis systems is disclosed.

Classifications:

International (IPC 8-9): B05B17/06 G01N1/00 G01N1/14 G01N1/28 G01N21/71 G01N21/73 G01N27/62 H01J49/04
H05H1/42 (Advanced/Invention);
G01N1/14 G01N1/28 G01N27/62 (Advanced/Non-invention);
B05B17/04 G01N1/00 G01N1/28 G01N21/71 G01N27/62 H01J49/02
H05H1/26 (Core/Invention);
G01N1/14 (Core/Non-invention)
International (IPC 1-7): B05B1/02 B05B17/06 B23K9/00 G01N1/00 G01N1/28 G01N21/73 G01N27/62 G01N35/00 H01J49/04 H01J49/26
CPC: H01J49/04 B23K9/328 G01N21/714 G01N35/1095 G01N2001/1463 H05H1/42
European: B23K9/32K G01N1/00B1 G01N21/71C H01J49/04 H05H1/42 S01N1/14P2 S01N35/10V
US: 219/121.48 219/121.51 219/121.52 219/121.59 239/102.2 239/338 250/288 315/111.51 356/316 73/863.12 73/863.23 73/864.81 73/864.85



Family:

Publication number	Publication date	Application number	Application date
AT167933 E	19980715	AT19920920883T	19920915
AU199226772 A1	19930427	AU19920026772	19920915
AU199333320 A1	19930728	AU19930033320	19921218
DE69226085 D1	19980806	DE19926026085	19920915
DE69226085 T2	19990225	DE19926026085T	19920915
EP0605609 A1	19940713	EP19920920883	19920915
EP0605609 A4	19940921	EP19920920883	19920915
EP0605609 B1	19980701	EP19920920883	19920915
JP7500416 T2	19950112	JP19930506172T	19920915
US5212365 A	19930518	US19910813766	19911227
US5259254 A	19931109	US19910766049	19910925
US5272308 A	19931221	US19920980467	19921123
US5400665 A	19950328	US19930025665	19930303
US5454274 A	19951003	US19940247872	19940523
WO9306451 A1	19930401	WO1992US07796	19920915
WO9312904 A1	19930708	WO1992US11089	19921218

Priority:

US19910766049 19910925 US19910813766 19911227 WO1992US07796 19920915
US19920980467 19921123 WO1992US11089 19921218 US19930025665 19930303
US19940247872 19940523

Probable Assignee: SD ACQUISITION INC

Assignee(s): (std)**:** CETAC TECH INC ; SUTTON JOHN E ; TRANSGENOMIC INC ; ZHU JIANZHONG

Assignee(s): TRANSGENOMIC INC OMAHA NEBR US ; CETAC TECHNOLOGIES INC ; SD ACQUISITION INC ; SECURITY NATIONAL BANK

Inventor(s): (std)**:** SUTTON JOHN E ; WIEDERIN DANIEL R ; ZHU JIANZHONG

Inventor(s): DANIEL R WIEDERIN ; SUTTON JOHN E OMAHA NB 68107 US ; ZHU JIANZHONG OMAHA NB 68127 US ; JOHN E SUTTON ; JIANZHONG ZHU

Designated states: AT AU BB BE BF BG BJ BR CA CF CG CH CI CM CS DE DK ES FI FR GA GB GN GR HU IE IT JP KP KR LI LK LU MC MG ML MN MR MW NL NO PL PT RO RU SD SE SN TD TG

139) Family number: 58902523 (US2015099078A)

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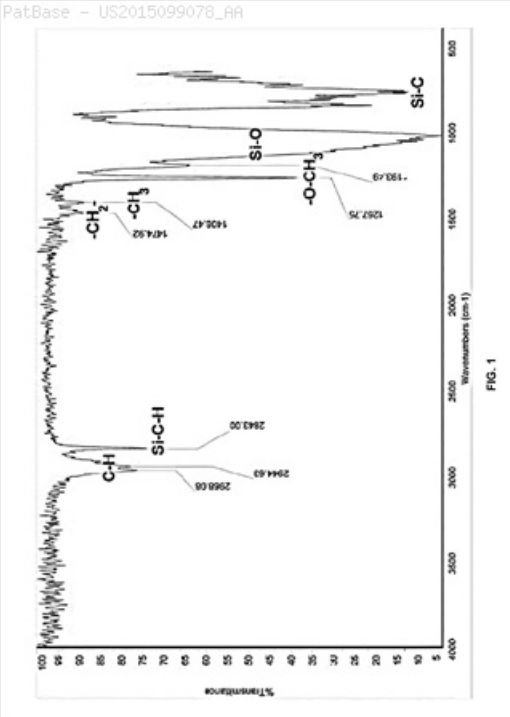
Title: HIGH PERFORMANCE COMPOSITIONS AND COMPOSITES

Abstract: Provided herein are compositions, comprising polysilazane, polysiloxane, and a boron constituent. The compositions may further comprise carbon nanofibers. Also provided is a method for forming the compositions, composites formed from a composition, and a method for forming composites from a composition by mixing the compositions with fibers and curing the composition-fiber mixture.

Classifications:

International (IPC 8-9): B05D3/02 B29C70/34 B29C70/46 B32B B32B27/04 B32B38/08 B32B38/18 B32B5/02 C07F7/21 C08G77/04 C08G77/14 C08G77/38 C08G77/44 C08J3/20 C08J5/24 C08K3/04 C08K3/38 C08K3/40 C08K5/057 C08K5/09 C08K7/06 C08K7/22 C08L83/00 C08L83/04 C08L83/16 C09D183/04 C09D183/06

C09D183/08 C09D183/10 C09D183/16
C09D201/10 (Advanced/Invention);
B29K105/12 B29K83/00 C08G77/62 (Advanced/Non-invention);
B32B (Subclass/Invention)
CPC: C08L83/04 B29C70/462 B29K2083/00 C09D183/04 B29K2105/124 B29C70/34 C08G77/62 C09D183/16 Y10T156/1044 Y10T428/1372 Y10T428/25 Y10T442/20 Y10T442/2984 B05D3/0254 C08K3/04 C08K3/38 C08K2003/385 C08L83/00 C08L83/16
US: 1/1 156/222 264/101 427/294 427/387 428/323 428/36.4 442/179 442/59 524/588 524/701 525/477 528/25 528/33 528/34 528/37 528/43



Family:

Publication number	Publication date	Application number	Application date
CA2926464 AA	20160404	CA20142926464	20141003
EP3052315 A1	20160810	EP20140850495	20141003
EP3052315 A4	20170517	EP20140850495	20141003
IL244877 A0	20160531	IL20140244877	20141003
JP2016535813 A2	20161117	JP20160546891	20141003
JP2016535813 T2	20161117	JP20160546891T	20141003
MX2016004330 A1	20160711	MX20160004330	20141003
US2015099078 AA	20150409	US20140506380	20141003
US2015099848 AA	20150409	US20140275675	20140512
US2015232699 AA	20150820	US20150641748	20150309
US2017321085 AA	20171109	US20170600084	20170519
US9006355 BA	20150414	US20140275675	20140512
US9505949 BB	20161129	US20150641748	20150309
US10259972 BB	20190416	US20140506380	20141003
WO15050586 A1	20150409	WO2014US39684	20140528
WO15051301 A1	20150409	WO2014US59139	20141003

Priority:

US20130886841P 20131004 US20140275675 20140512 US20140506380 20141003
WO2014US59139 20141003 US20150641748 20150309 US20170600084 20170519

Probable Assignee: BURNING BUSH TECHNOLOGIES LLC

Assignee(s): (std): BURNING BUSH GROUP LLC ; BURNING BUSH TECHNOLOGIES LLC ; CHRISTOPHER FISH ; FISH CHRIS ; FISH CHRISTOPHER ; TECHNEGLAS LLC

Inventor(s): (std): FISH CHRISTOPHER ; FISH CHRIS ; CHRISTOPHER FISH ; BUFFY JARROD

Agent(s): RIDOUT AND MAYBEE LLP; BLAKE MICHAEL EDWARD; PATRICK C; POLSINELLI PC; CLIFFORD; BENNETT DENNIS A; SCHLECHT CLIFFORD A; GLOBAL PATENT GROUP; WOOLLEY PATRICK

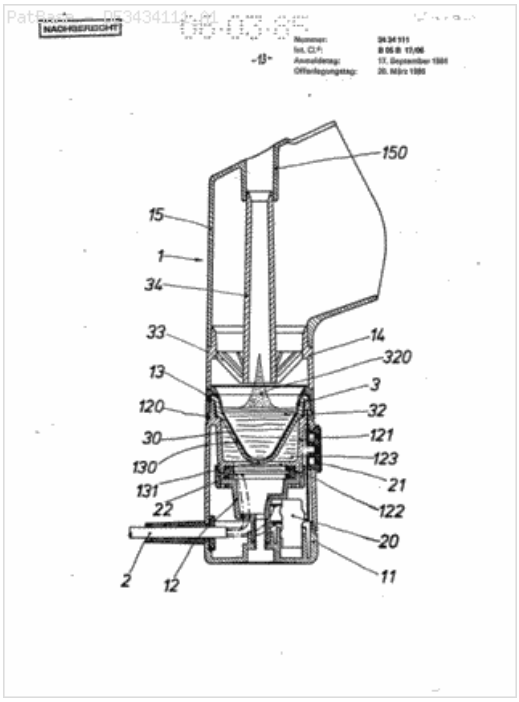
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140) Family number: 3801523 (DE3434111A1)

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Title: Fluid atomiser

Abstract: The invention relates to a fluid atomiser having an ultrasonic exciter which acts on the fluid to be atomised. It is characterised in relation to the prior art in that the fluid to be atomised is accommodated in a container which consists of a diaphragm which transmits ultrasonic waves, and in that between the said diaphragm and the ultrasonic exciter, a vessel which is connected thereto and filled with a coupling fluid is arranged, the diaphragm dipping entirely or partially into the fluid of the vessel. A particular advantage is then obtained if, as also recommended by the invention, the diaphragm is constructed as a funnel-shaped preform which dips deeply into the coupling fluid because then the fluid to be atomised is sprayed right down to the smallest possible residue which collects in the tip of the funnel. Finally, the invention permits the feed air to be directed onto the centre of the tip of the funnel, as a result of which the smallest droplets which jump up can be completely surrounded by it and carried along.
Classifications:
International (IPC 8-9): B05B17/06 (Advanced/Invention);
B05B17/04 (Core/Invention)
International (IPC 1-7): A61M11/00 B05B17/06
CPC: B05B17/0615
European: B05B17/06B1



Family:

Publication number	Publication date	Application number	Application date
DE3434111 A1	19860320	DE19843434111	19840917

Priority:

DE19843434111 19840917

Probable Assignee: BUSSE DESIGN ULM GMBH

Assignee(s): (std)**:** BUSSE DESIGN ULM GMBH

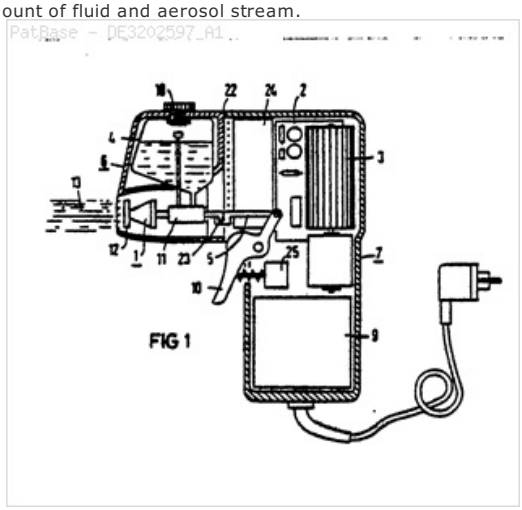
Inventor(s): DER ERFINDER WIRD NACHTRAEGLICH BENANNT

141) Family number: 3092527 (DE3202597A1)

Title: Device for atomising fluids

Abstract: Two-component atomiser unit for fluids, composed of a base unit (7) with excitation electronics (2) and blower (3) and a unit attachment (6) which contains the fluid container (4), the ultrasonic atomiser (1), a valve (11) and all the components wetted with the fluid, which components are connected via a mechanical-electrical switching mechanism (5). The devices permit fluids to be sprayed, atomised and metered and to be controlled for example by cosmetics, medicines and textile accessories, it being possible to vary the droplet diameter, amount of fluid and aerosol stream.

Classifications:
International (IPC 8-9): B05B17/06 (Advanced/Invention); B05B17/04 (Core/Invention)
International (IPC 1-7): B05B17/06
CPC: B05B17/0623 B05B17/063
European: B05B17/06B2 B05B17/06B2B L05B17/06B2Y10



Family:

Publication number	Publication date	Application number	Application date
DE3202597 A1	19830804	DE19823202597	19820127
DE3202597 C2	19900927	DE19823202597	19820127

Priority:

DE19823202597 19820127

Probable Assignee: SIEMENS AG

Assignee(s): (std)**:** SIEMENS AG

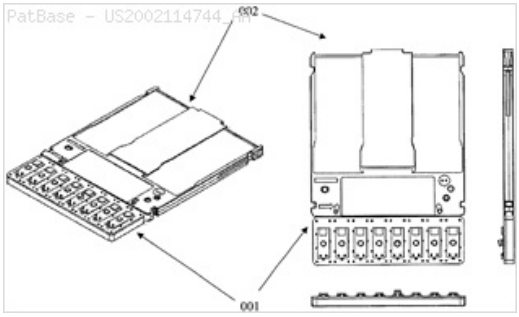
Inventor(s): (std)**:** DREWS WOLF DIETRICH DR

Inventor(s): DREWS WOLF DIETRICH DR 8620 LICHTENFELS DE

142) Family number: 30267530 (US2002114744A)

Title: MULTIMEDIA AND SCENT STORAGE CARTRIDGE DESIGN HAVING ELECTROSTATIC SCENT RELEASE AND METHODS FOR USING SAME

Abstract: The present invention concerns a scent-bearing and multimedia card or disk for use in conjunction with scent recovery and multimedia playback systems. The scent-bearing and multimedia card or disk comprises an encapsulated optical storage disk for storing multimedia information, and an associated scent storage medium for storing at least one scent. The scent-bearing and multimedia card or disk contains digital scent recovery and multimedia playback control information for use by an associated scent recovery/release and multimedia playback system. The digital scent recovery and multimedia control information is used by the multimedia playback and scent release system to coordinate multimedia playback and scent release. Additional embodiments of the present invention comprise electrostatic scent release systems and methods for effectively and efficiently releasing scent stored in the scent- and multimedia-bearing card or disk. Further embodiments of the present invention comprise methods and systems for editing and storing the digital scent recovery and multimedia information so that user-specified scent recovery and multimedia sequences may be created for current use and saved for future use.



Classifications:
International (IPC 8-9): A61L9/014 A61L9/02 A61L9/03 A61L9/04 A61L9/12 A61L9/14 A61L9/22 G03B21/32 G06F3/00 G06F3/01 (Advanced/Invention);
A61L9/01 A61L9/015 A61L9/04 A61L9/12 A61L9/14 A61L9/22 G03B21/32 G06F3/00 G06F3/01 (Core/Invention)
International (IPC 1-7): A61L9/00 A61L9/03 B01F3/04 B05B5/00 G03B21/32 G06F17/00
CPC: A61L9/014 A61L9/02 A61L9/04 A61L9/042 A61L9/122 A61L9/125 A61L9/14 A61L9/22 A61L2209/22 A61L9/145 Y10S428/905 G03B21/32 A61L9/035 G06F3/011
European: A61L9/014 A61L9/02 A61L9/03M A61L9/04 A61L9/04B A61L9/12F A61L9/12M A61L9/14 A61L9/14L A61L9/22 G03B21/32 G06F3/00B8 G06F3/01B K61L209/220
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Family:

Publication number	Publication date	Application number	Application date
AU2003202927 AA	20030730	AU20030202927	20030108
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US2003206834 AA	20031106	US20030436608	20030509
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US6602475 BA	20030805	US20000713983	20001116
US6654664 BA	20031125	US20000593219	20000614
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Priority:

US20000593219 20000614 US20000690042 20001017 US20000713983 20001116
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Probable Assignee: CHIAO DAH SHIARN

Assignee(s): (std): CHIAO DAH SHIARN ; MULTISEN TECHNOLOGY INC ; SENMEDIA BIO ELECTRONICS INC

Assignee(s): CHIAO DAHSHIARN ; FANG HONG WEN ; CHANG CHIEN AN

Inventor(s): (std): CHIAO DAH SHIARN ; FANG HONG WEN ; CHANG CHIEN AN ; CHIAO DAHSHIARN ; DU HOWARD ; ALVERSON KARL ; CHIAO DAH SHIARIM

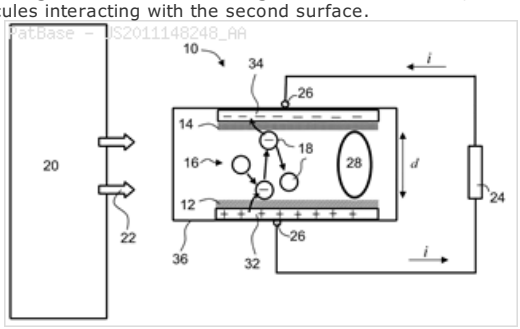
Inventor(s): CHIEN AN CHANG ; DAH SHIARN CHIAO ; HONG WEN FANG

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

143) Family number: 42472538 (US2011148248A)

Title: DEVICE AND METHOD FOR GENERATING ELECTRICITY

Abstract: A device and method for directly converting thermal energy to electricity are disclosed. The device comprises a first surface and second surface preferably of different materials, and a gas medium having gas molecules in thermal motion between the surfaces. The first surface is operative to transfer charge to gas molecules interacting with the first surface, and the second surface is operative to receive the charge from gas molecules interacting with the second surface.



Classifications:
International (IPC 8-9): B05D1/00 B05D1/02 B05D1/40 B05D3/00 B05D3/14 B05D5/12 B28B11/24 B28B3/02 B32B5/16 C23C14/34 C25D13/12 C25D7/00 H01B13/00 H01J45/00 H01L35/00 H02K44/00 H02N H02N1/00 H02N10/00 H02N11/00
H02N3/00 (Advanced/Invention);
H01J45/00 H02N11/00 H02N3/00 (Advanced/Non-invention);
H01J45/00 H02N11/00 H02N3/00 (Core/Invention);
H01B13/00 H01L35/00 H02N11/00 (Core/Non-invention);
H02N (Subclass/Invention)
International (IPC 1-7): H01J45/00 H01L35/00 H02N11/00 H02N3/00
CPC: H02J3/382 H02N11/00 Y02B70/346 Y02T10/166 H01J45/00 H02N3/00 H02N11/002 Y10T428/249921 B05D1/005 B05D1/02 B05D1/40 B28B3/02 B28B11/24 C23C14/34 C25D7/00 C25D13/12
European: H01J45/00 H02N11/00B H02N3/00
US: 1/1 204/451 204/451S 205/80 205/80S 310/306 310/306P 310/309 310/309P 427/123 427/123S 427/126.3 427/126.300S 427/532 427/532S 427/58 427/58S 428/221 428/221S 428/317.9

Family:

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Priority:

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Probable Assignee: LANDA LABS 2012 LTD

Assignee(s): (std): ABRAMOVICH SAGI ; AMIR LION ; ASHER OFIR ; BENZION LANDA ; LANDA BENZION ; LANDA LABORATORIES LTD ; LANDA LAB LTD ; LION AMIR ; LANDA LABS 2012 LTD ; LANDA CORP LTD ; LEHNDA LEHBS 2012 LTD ; OFIR ASHER ; YAYON YOSEF ; RUBIN BEN HAIM NIR ; SAGI ABRAMOVICH ; NIR RUBIN BEN HAIM ; YOSEF YAYON

Assignee(s): LTD ; LANDA LABORATORIES LTD IL ; LANDA LABS 201 ; LANDA LTD CORP

Inventor(s): (std): NIR RUBIN BEM HAIM ; OFIR ASHER ; RUBIN BEN HAIM NIR ; YAYON YOSEF ; LION AMIR ; HAIM NIR ; ABRAMOVICH SAGI ; BENZION LANDA ; LEHNDA BENZION ; BEN HAIM NIR RUBIN ; YOSEF YAYON ; NIR RUBIN BEN HAIM ; SAGI ABRAMOVICH ; ASHER OFIR ; AMIR LION ; LANDA BENZION

Inventor(s): RUBIN BEN-HAIM, NIR

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; SPRUSON AND FERGUSON; CULLENS PTY LTD; INTEGRAL IP; DENNEMEYER AND ASSOCIATES S A; BRUNNER JOHN MICHAEL OWEN; GE EHRLICH 1995 LTD; G E EHRLICH 1995 LTD 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

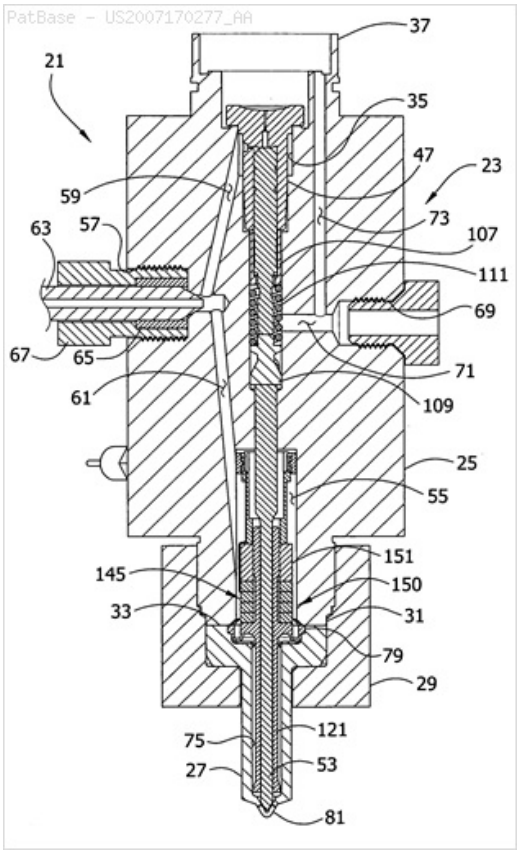
144) Family number: 34916540 (US2007170277A)

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Title: ULTRASONIC LIQUID DELIVERY DEVICE

Abstract: An ultrasonic liquid delivery device in which a housing of the device has an internal chamber and at least one exhaust port in fluid communication with the internal chamber of the housing. A valve member is moveable relative to the housing between a closed position in which liquid is inhibited against exhaustion from the housing via the at least one exhaust port, and an open position in which liquid is exhaustable from the housing via the at least one exhaust port. An ultrasonic waveguide separate from the housing and valve member is disposed at least in part within the internal chamber of the housing to ultrasonically energize liquid within the internal chamber prior to liquid being exhausted from the housing in the open position of the valve member. An excitation device is operable in the open position of the valve member to ultrasonically excite the ultrasonic waveguide.

Classifications:
International (IPC 8-9): A61K9/00 A61M11/00 B01F11/00 B01F11/02 B01F3/08 B01F3/10 B01F7/16 B01J19/10 B05B1/00 B05B1/08 B05B17/00 B05B17/04 B05B17/06 B05B3/00 B05B3/04 F02D41/20 F02D41/24 F02M27/08 F02M47/00 F02M47/02 F02M51/00 F02M51/06 F02M61/06 F02M61/16 F02M63/00 F02M69/04 F04B11/00 F04B17/00 F04F7/00 F23D11/34 G05D7/00 G05G7/00
H01L41/04 (Advanced/Invention);
A61M11/00 B01F11/00 B01F11/02 B01F3/08 B05B1/26 B05B1/34 B05B3/00 F02M51/06 F16K31/02 G05D7/00 G05G7/00
H01L41/00 (Advanced/Non-invention);
A61M11/00 B01F11/00 B01F3/08 B01F7/16 B01J19/10 B05B1/00 B05B1/02 B05B17/00 B05B17/04 B05B3/00 B05B3/02 F02M27/00 F02M47/00 F02M47/02 F02M61/00 F02M63/00 F02M69/04 F04B11/00 F04B17/00 G05D7/00 G05G7/00 (Core/Invention);
B01F11/00 B05B1/26 B05B1/34 F16K31/02 H01L41/00 (Core/Non-invention)
International (IPC 1-7): B01F3/08 B01J19/10 F02M69/04 G05D7/00 G05G7/00
CPC: F02D41/2096 F02D41/2467 F02M61/10 F02M2200/21 F02M2200/24 F02M27/08 B01F5/0618 A61K9/0024 F02M47/027 B01F5/0641 B01F11/0258 B01F2005/0625 B01F2005/0636 F02M51/005 B01F2005/0637 F02M51/0603 F02M61/168 B01J19/008 B01J19/10 B01J2219/0877 B01J2219/089 B06B3/00 C02F1/36 F02M69/041 B01F11/0225 F02M2547/003 F23D11/345 F04B15/02 F04B19/20 F04F7/00
European: A61K9/00M5D B01F11/02G B01F5/06B3B8 B01J19/00K B01J19/10 B06B3/00 C02F1/36 F02M27/08 F02M47/02D F02M51/00C F02M51/06A F02M61/10 F02M61/16H F02M69/04B F04B15/02 F04B19/20 F23D11/34B L01F5/06B3B20C L01F5/06B3B40B L01F5/06B3B40C L01J219/08M4 L01J219/08M8J R02M200/21 R02M200/24 R02M47/02D R02M547/00G R02M61/10
US: 1/1 123/445 123/496 123/498 222/1 222/196 222/52 239/102.1 239/102.100S 239/102.2 239/102.200P 239/4 239/461 239/463 239/466 239/467 239/468 239/469 239/4P 239/533.2 239/533.200S 239/584 251/129.01 251/129.06 310/326 310/327 366/108 366/118 366/122 366/122S 366/127 366/98 366/98P 417/321 417/321S 417/322 417/53 417/53P



Family:

Publication number	Publication date	Application number	Application date
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Priority:

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US20090438317	20091028	WO2009IB55096	20091116	US20130086375	20131121

Probable Assignee: KIMBERLY CLARK CORP

Assignee(s): (std): BROMFIELD GEORGE ; COOL ROBERT ALAN ; EHLERT THOMAS DAVID ; KIMBERLY CLARK WORLDWIDE INC ; KIMBERLY CLARK CO ; JANSSEN ROBERT ALLEN ; JANSEN ROBERT ALLEN ; RASMUSSEN PAUL WARREN ; ROFFERS STEVE ; MCCRAW EARL C ; MCNICHOLS PATRICK SEAN ; MEYER ANDREW ENIS ; ZUEHLKE TIMOTHY R ; KIMBERLY CLARK CO US ; KIMBERLY CLARK CORP ; AHLES JOHN GLEN ; BAKER DOUGLAS M

Assignee(s): BEGINNINGS TECHNOLOGY INC ; KIMBERLY CLARK WORLDWIDE INC NEENAH ; KIMBERLY CLARK WORDWIDE INC ; KIMBERLY CLARK WORLDWIDE ; INC ; PIEZO INNOVATIONS ; MCLAREN PERFORMANCE TECHNOLOGIES INC ; KIMBERLY CLARK WORLD WIDE INC ; KIMBERLI KLARK VORLDVAJD INK

Inventor(s): (std): JANSSEN ROBERT ALLEN ; AHLES JOHN GLEN ; ROFFERS STEVE ; EHLERT THOMAS DAVID ; RASMUSSEN PAUL WARREN ; MCNICHOLS PATRICK SEAN ; MCCRAW EARL C ; COOL ROBERT ALAN ; JANSEN ROBERT ALLEN ; BAKER DOUGLAS M ; PATRICK SEAN MCNICHOLS ; THOMAS DAVID EHLERT ; ROBERT ALLEN JANSEN ; BECKEL D M ; EHLERT TOMAS DEHVID ; ALES DZHON GLEN ; MAKKROU EHRL K ; RASMUSSEN POL UORREN ; MAKNIKOL S PATRIK SHON ; ROFFERS STIV ; ANDREW ENIS MEYER ; EHIERT THOMAS DAVID ; ZUEHLKE TOMOTHY R ; DAVID EHLERT THOMAS ; GLEN AHLES JOHN ; SEAN MCNICHOLS PATRICK ; ALLEN JANSSEN ROBERT ; WARREN RASMUSSEN PAUL ; STEVE ROFFERS ; DOUGLAS M BAKER ; EHLERT THOMAS D ; BROMFIELD GEORGE ; ZUEHLKE TIMOTHY R ; MEYER ANDREW E ; MCNICHOLS PATRICK S ; MCNICHOLS P S ; EHLERT T D ; MCCRAW JR EARL C ; ENIS MEYER ANDREW ; GEORGE BROMFIELD ; MEYER ANDREW ENIS ; JANSSEN ROBERT A ; TIMOTHY R ZUEHLKE

Inventor(s): TOMOTHY R ZUEHLKE ; THOMAS DAVID EHIERT ; BAKER DOUGLAS ; MAKNIKOL'S PATRIK SHON ; EHLERT THOMAS DAVID NEENAH ; MCNICHOLS PATRICK SEAN HORTONVILLE ; JANSEN ROBERT ALLEN ALPHARETTA ; ZUEHLKE TIMOTHY R OREGON ; BROMFIELD GEORGE SALT LAKE CITY ; MEYER ANDREW ENIS HARPERS FERRY ; ROFFERS STEVE NEENAH ; JANSSEN ROBERT ALLEN ALPHARETTA ; AHLES JOHN GLEN NEENAH ; MCCRAW EARL C DULUTH ; RASMUSSEN PAUL WARREN NEENAH ; MCCRAW EARL ; AHLES JOHN ; JANSSEN ROBERT ; RASMUSSEN PAUL ; PAUL WARREN RASMUSSEN ; JOHN GLEN AHLES ; EARL C MCCRAW ; ROBERT ALLEN JANSSEN ; ROBERT ALAN COOL ; ZUEHLKE TIMOTHY ; EHLERT THOMAS ; MEYER ANDREW ; MCNICHOLS PATRICK

Agent(s): FREEHILLS PATENT ATTORNEYS; SPRUSON AND FERGUSON; FREEHILLS PATENT AND TRADE MARK ATTORNEYS; HERBERT SMITH FREEHILLS; FREEHILLS PATENT ATTORNEY S; ZIMMERMANN AND PARTNER PATENTANWAELTE MBB; DEHNS; ZIMMERMANN AND PARTNER; Zimmermann & Partner; DAVIES CHRISTOPHER ROBERT; Davies Christopher Robert; MABEY KATHERINE FRANCES; SENNIGER POWERS (KCC); SENNIGER POWERS KCC; CHRISTOPHER M GOFF 27839 ARMSTRONG TEASDALE LLP; ARMSTRONG TEASDALE LLP; GOFF CHRISTOPHER M ET AL; BRIDGE RICHARD L ET AL; GOFF CHRISTOPHER M; BRIDGE RICHARD L

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

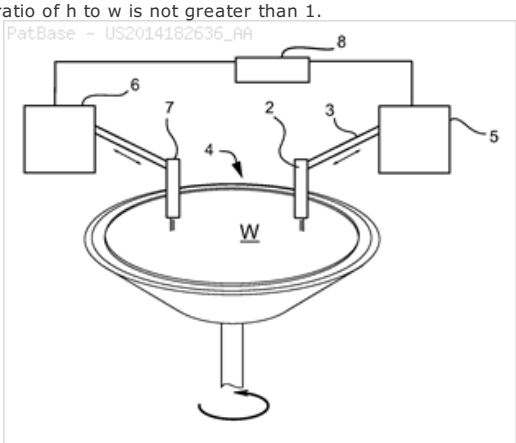
145) Family number: 56157541 (US2014182636A)

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Title: METHOD AND APPARATUS FOR PROCESSING WAFER-SHAPED ARTICLES

Abstract: The wet treatment of wafer-shaped articles is improved by utilizing a droplet generator designed to produce a spray of monodisperse droplets. The droplet generator is mounted above a spin chuck, and is moved across a major surface of the wafer-shaped article in a linear or arcuate path. The droplet generator includes a transducer acoustically coupled to its body such that sonic energy reaches a region of the body surrounding the discharge orifices. Each orifice has a width w of at least 1 micro m and at most 200 micro m and a height h such that a ratio of h to w is not greater than 1.

Classifications:
International (IPC 8-9): B05B13/02 B05B17/06 B05B9/04 B05C13/02 B05C5/00 B08B3/10 B08B3/12 H01L21/02 H01L21/027 H01L21/302 H01L21/304 H01L21/306 H01L21/67 (Advanced/Invention)
CPC: H01L21/67023 B08B3/12 H01L21/67051
US: 118/313 118/315 118/316 134/1 134/103.2 134/18 134/2 134/26 134/32 134/33 134/34 134/36 134/42 134/902



Family:

Publication number	Publication date	Application number	Application date
CN103871929 A	20140618	CN201310578966	20131118
CN103871929 B	20160928	CN201310578966	20131118
JP2014131033 A2	20140710	JP20130259825	20131217
KR20140079333 A	20140626	KR20130158802	20131218
TW201442098 A	20141101	TW20130146718	20131217
TWI602235 B	20171011	TW20130146718	20131217
US2014182636 AA	20140703	US20140198121	20140305
US8691022 BA	20140408	US20120718901	20121218
US9548221 BB	20170117	US20140198121	20140305

Priority:
US20120718901 20121218 US20140198121 20140305

Probable Assignee: LAM RESEARCH AG

Assignee(s): (std): LAM RES AG ; LAM RESEARCH CORP

Assignee(s): LAM RESEARCH AG

Inventor(s): (std): HOLSTEYNS FRANK ; LIPPERT ALEXANDER ; ALEXANDER LIPPERT ; FRANK HOLSTEYNS

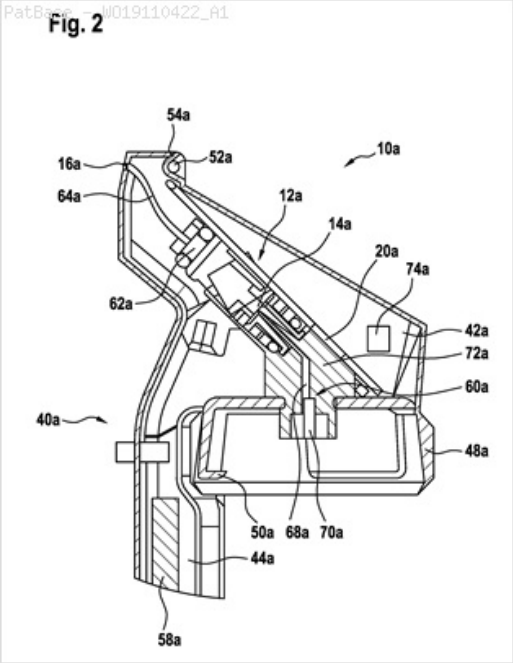
Agent(s): TOKKYO GYOMUHOJIN MEISEI INT PATENT FIRM; YOUNG AND THOMPSON

146) Family number: 74599543 (WO19110422A1)

Title: MEDIA APPLICATION DEVICE

Abstract: The invention relates to a media application device, in particular an ink application device, comprising at least one media discharge unit (12a –2e; 12g) which has at least one nozzle unit (14a –14e; 14g) having at least one nozzle element (16a –16e; 16g; 16h; 106c, 108c, 110c), for discharging at least one medium onto at least one surface (18a), and comprising at least one electronic unit (20a; 20b) at least for controlling and/or regulating the media discharge unit (12a –2e; 12g). According to the invention, at least one nozzle parameter of the nozzle element (16a –16e; 16g; 16h; 106c, 108c, 110c) can be set and/or adjusted and/or the nozzle unit (14g) is formed as an oscillation nozzle unit, in particular as a piezo nozzle unit.

Classifications:
International (IPC 8-9): B05B1/00 B05B11/00 B05B12/00 B05B12/16 B05B15/55 B05B17/00 B05B17/06 B05D1/02 (Advanced/Invention)
CPC: B05B12/00 B05B11/0054 B05B15/55 B05B17/0607 B05B17/0646 B05B1/00 B05B11/00 B05B12/16 B05B17/00 B05B17/06



Family:

Publication number	Publication date	Application number	Application date
DE102018220405 A1	20190606	DE201810220405	20181128
WO19110422 A1	20190613	WO2018EP83039	20181129

Priority:
DE201710221992 20171206 DE201710222013 20171206 DE201710222026 20171206
DE201810212737 20180731 DE201810220405 20181128

Probable Assignee: BOSCH GMBH ROBERT

Assignee(s): (std): BOSCH GMBH ROBERT

Assignee(s): ROBERT BOSCH GMBH

Inventor(s): (std): ESENWEIN FLORIAN ; LOSER RALF ; SZELL ISTVAN ; ERCKERT BEATRIX ; POHLMANN MARTIN ; PREHN JANINE ; SCHULER ROBIN ; AMANN SIEGHARD ; SIEBER GUSTAV ; DOEPNER JAN

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

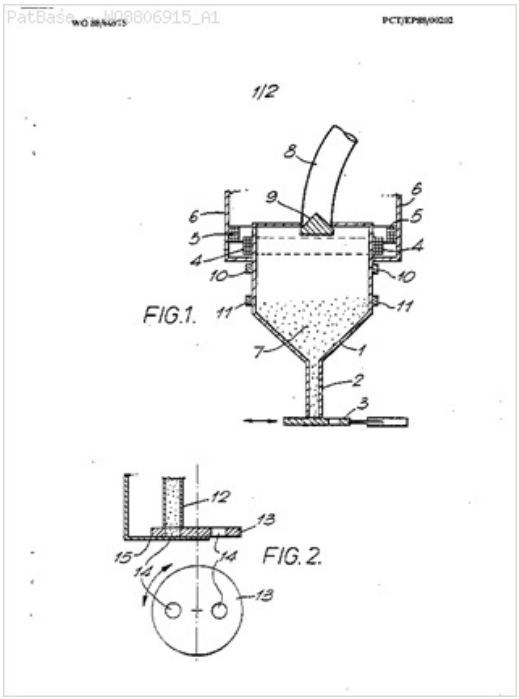
147) Family number: 28851543 (ZA8801938A)

Title: PROCESS AND APPARATUS FOR METERING POWDERS

Abstract: Process for expelling very fine powders through narrow openings or nozzles, which exploits the action of vibration on the particles of powder, the frequency of vibration being the same as, or similar to, the frequency of the particles' natural resonance. Device for implementing said process, consisting essentially of a reservoir (1) coupled to a vibration generator (4, 5) and provided with a nozzle (2).

Classifications:
International (IPC 8-9): A61M15/00 A61M16/00 B01J4/00 B01J4/02 B01J8/00 B65D88/66 (Advanced/Invention);
A61M16/00 B01J4/02 (Advanced/Non-invention);
A61M15/00 B01J4/00 B01J4/02 B01J8/00 B65D88/00 (Core/Invention);
A61M16/00 (Core/Non-invention)
International (IPC 1-7): A61M15/00 B01J4/00 B01J4/02 B05B1/30

B05D1/02 B06B1/00 B65B37/16 B65D88/66 C23D5/04 G05D19/00
CPC: A61M15/0066 A61M15/0085 A61M2016/0021 A61M2202/062 A61M2202/064 B01J8/0015 B01J8/002 B65D88/66
European: A61M15/00F B01J8/00F B01J8/00F2 B65D88/66 K61M15/00D K61M16/00A11 K61M16/00A8B2 K61M202/06A2 K61M202/06B



Family:

Publication number	Publication date	Application number	Application date
AU198814886 A1	19881010	AU19880014886	19880315
BRPI8807413 A	19900515	BR1988PI07413	19880315
DD280945 A5	19900725	DD19880313751	19880317
DE3708933 A1	19880929	DE19873708933	19870319
DE3708933 C2	19900628	DE19873708933	19870319
DE8890048 U1	19891026	DE19880090048U	19880315
DK647288 A	19881118	DK19880006472	19881118
DK647288 A0	19881118	DK19880006472	19881118
EP0282958 A1	19880921	EP19880104041	19880315
EP0349560 A1	19900110	EP19880902461	19880315
FI894421 A	19890919	FI19890004421	19890919
FI894421 A0	19890919	FI19890004421	19890919
HU54922 A2	19910429	HU19880002156	19880315
IL85769 A0	19880930	IL19880085769	19880317
JP02502525 T2	19900816	JP19880502554T	19880315
JP2502525 T2	19900816	JP19880502554T	19880315
KR19897000393 A	19890424	KR19880701488	19881118
NO885164 A	19881118	NO19880005164	19881118
NO885164 A0	19881118	NO19880005164	19881118
NO885164 L	19881118	NO19880005164	19881118
WO8806915 A1	19880922	WO1988EP00202	19880315
ZA8801938 A	19891129	ZA19880001938	19880318

Priority:
DE19873708933 19870319 WO1988EP00202 19880315

Probable Assignee: BOEHRINGER INGELHEIM ZENTRALE GMBH 6507 INGELHEIM DE

Assignee(s): (std): HEINRICH REENTS ; BOEHRINGER SOHN INGELHEIM ; PROF DR ING HEINRICH REENTS ; REENTS HEINRICH ; REENTS HEINRICH PROF DR ING

Assignee(s): PROFESSOR DR ING HEINRICH REENTS DE ; REENTS HEINRICH PROF DR ING 4750 UNNA DE ; REENTS HEINRICH DE ; REENTS HEINRICH PROFDR ING ; BOEHRINGER INGELHEIM ZENTRALE GMBH 6507 INGELHEIM DE ; BOEHRINGER INGELHEIM ZENTRALE GMBH ; BOEHRINGER INGELHEIM ZENTRALE GMBH 6507 INGELHEIM

Inventor(s): (std): HEINRICH REENTS ; REENTS HEINRICH ; REENTS HEINRICH PROF DR ING

Inventor(s): REENTS HEINRICH DE ; REENTS HEINRICH PROF DR ING 4750 UNNA DE ; REENTS HEINRICH PROFDR ING

Agent(s): CALLINANS; FISHER ADAMS KELLY CALLINANS; SPRUSON AND FERGUSON

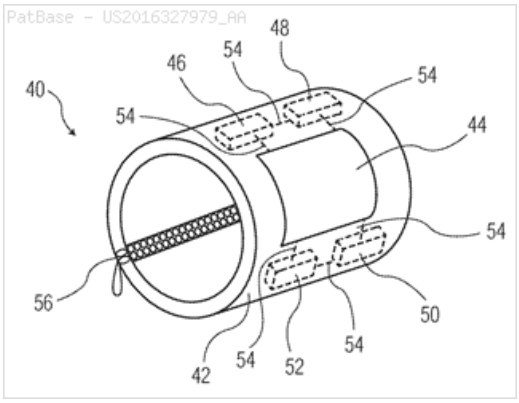
Designated states: AT AU BE BR CH DE DK ES FI FR GB GR HU IT JP KR LI LU NL NO SE SU US

148) Family number: 59694546 (US2016327979A)

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Title: WEARABLE ELECTRONIC DEVICES

Abstract: Wearable electronic devices that comprise an article of apparel that comprises at least one electronic or electrical component.
Classifications:
International (IPC 8-9): A41D19/00 A41D31/02 B05D3/00 B60N2/56 B62D1/06 G06F1/16 H05B3/14 H05K5/00 (Advanced/Invention)
CPC: G06F1/163 A41D31/02 A41D19/0006 B60N2/56 B62D1/06 H05B3/145
US: 1/1 361/679.03 428/473



Family:

Publication number	Publication date	Application number	Application date
US2016327979 AA	20161110	US20150109699	20150105
US2017038795 AA	20170209	US20150201673	20150105
US10082830 BB	20180925	US20150109699	20150105
US10379576 BA	20190813	US20180107658	20180821
WO15103563 A1	20150709	WO2015US10196	20150105
WO15103565 A1	20150709	WO2015US10199	20150105

Priority:

US20140923749P 20140105 US20140924692P 20140107 US20140018683P 20140630
US20150109699 20150105 US20150201673 20150105 WO2015US10196 20150105
WO2015US10199 20150105 US20180107658 20180821

Probable Assignee: VORBECK MAT CORP

Assignee(s): (std): VORBECK MAT CORP ; VORBECK MATERIALS

Assignee(s): VORBECK MATERIALS CORP

Inventor(s): (std): LETTOW JOHN S ; SCHEFFER DAN ; SCHEFFER DAN F

Agent(s): BOLAR ESQ TRENTICE V; REDMOND KATE

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

149) Family number: 43708547 (US2009226683A)

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Title: POROUS MATERIAL USES IN FURNITURE

Abstract: A microporous fire resistant film coated or laminated composite textile may be uses as an upholstery fabric or mattress ticking which provides an air permeable microporous barrier to liquid, allergen or pathogen particle, or biological organism penetration. The microporous cellular structure of the coated or laminated film backing may provide a high capacity reservoir which may contain additives such as antimicrobial, UV absorbing, scent dispersing, or organism repelling particles or other functional agents, while maintaining superior barrier and air permeability properties in the finished product constructions. Applications may include any seating and bedding products where a combination of two or more of the above properties is desired.

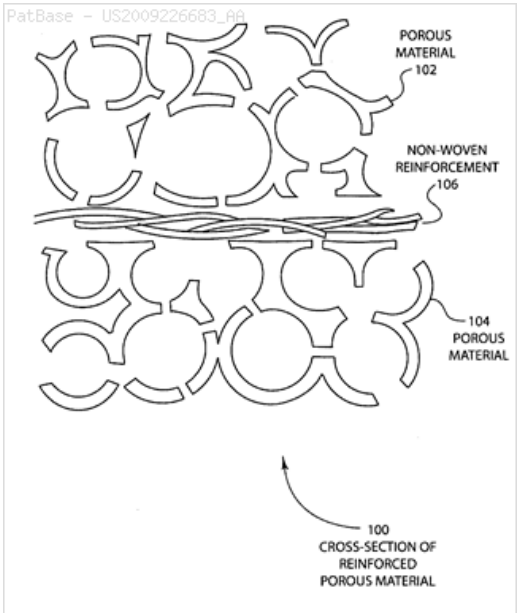
Classifications:

International (IPC 8-9): B05D5/00 B32B27/18 B32B3/26 B68G11/04 (Advanced/Invention);
B05D5/00 B32B27/18 B32B3/26 B68G11/00 (Core/Invention)

CPC: A47C27/006 A47C31/001 A47C31/007 B32B27/12 D06N3/0043 D06N3/0088 Y10T428/24826 Y10T428/249954 Y10T428/249978 B32B3/26 B32B3/266 B32B5/022 B32B5/024 B32B7/08 B32B7/10 B32B7/12 B32B27/08 B32B27/10 B32B27/18 B32B27/304 B32B27/308 B32B27/322 B32B2262/02 B32B2262/06 B32B2262/08 B32B2262/101 B32B2264/00 B32B2264/10 B32B2270/00 B32B2307/3065 B32B2307/71 B32B2307/7145 B32B2307/724 B32B2479/00 B32B2601/00

European: A47C27/00T8D A47C31/00B A47C31/00M B32B27/12 D06N3/00D D06N3/00G2

US: 427/246 427/246S 428/198 428/198P 428/305.5 428/305.500S 428/315.5 428/315.500S



Family:

Publication number	Publication date	Application number	Application date
US2009226683 AA	20090910	US20090398461	20090305

Priority:

US20080034136P 20080305 US20090398461 20090305

Probable Assignee: POROUS POWER TECHNOLOGIES LLC F K A PPT OPCO LLC

Assignee(s): (std)**:** BEARD KIRBY ; HAUSER RAY L ; PERRY BERNARD

Assignee(s): POROUS POWER TECHNOLOGIES LLC ; POROUS POWER TECHNOLOGIES LLC (F K A PPT OPCO LLC) ; POROUS POWER TECHNOLOGIES LLC F K A PPT OPCO LLC

Inventor(s): (std)**:** BEARD KIRBY ; HAUSER RAY L ; PERRY BERNARD

Agent(s): POROUS POWER TECHNOLOGIES-CORRESPONDENCE; POROUS POWER TECHNOLOGIES CORRESPONDENCE

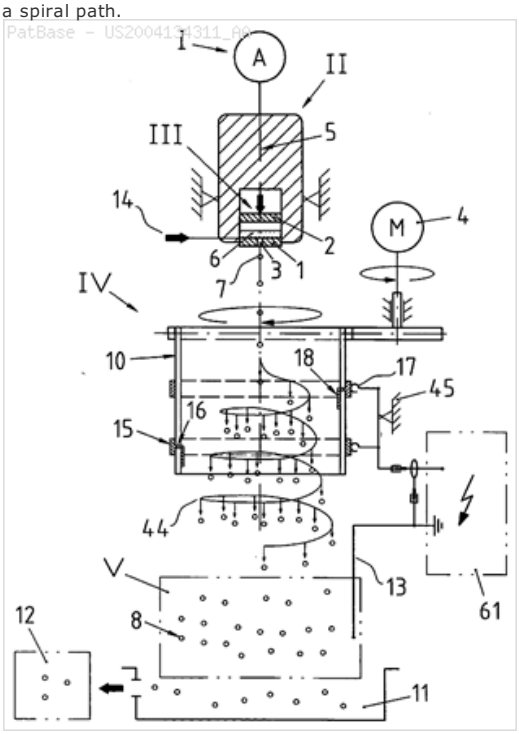
150) Family number: 30163548 (US2004134311A)

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Title: METHOD AND DEVICE FOR THE PRODUCTION OF PARTICLES FROM LIQUID STARTING MATERIALS

Abstract: The invention relates to a method for the production of solid particles from a liquid starting material, whereby a dosed liquid particle is separated from a liquid film by means of transmission of a mechanical impulse thereto and is fed to a region in which the fluid particle is fixed and devices for carrying out said method. Said devices comprise an impulse diaphragm, an impulse mass, at least one opening for the ejection of the liquid particle, means for forming a fluid film on the surface of the impulse diaphragm, whereby the impulse diaphragm or the impulse mass are embodied as a movable actuator for the transmission of an impulse to the liquid film, an impulse drive for the generation of a high frequency force impulse and a high voltage device for guiding the ejected liquid particle along a spiral path.

Classifications:
International (IPC 8-9): B01J2/02 B01J2/18 B22F9/06 (Advanced/Invention); B01J2/00 B01J2/02 B22F9/06 (Core/Invention)
International (IPC 1-7): B01J2/02 B01J2/06 B01J2/18 B05B12/06 B22F9/06 F26B11/08 F26B3/34
CPC: B01J2/02 B01J2/18
European: B01J2/02 B01J2/18
US: 266/202 75/335



Family:

Publication number	Publication date	Application number	Application date
AT407733 E	20080915	AT20020712899T	20020206
AU2002244708 AA	20020819	AU20020244708	20020206
DE10105156 A1	20020822	DE20011005156	20010206
DE50212762 D1	20081023	DE20025012762	20020206
EP1372836 A2	20040102	EP20020712899	20020206
EP1372836 B1	20080910	EP20020712899	20020206
US2004134311 AA	20040715	US20040467257	20040217
US7311753 BB	20071225	US20040467257	20040217
WO02062461 A2	20020815	WO2002EP01276	20020206
WO02062461 A3	20031009	WO2002EP01276	20020206

Priority:

DE20011005156 20010206 WO2002EP01276 20020206

Probable Assignee: FRANK BRUSKE

Assignee(s): (std)**:** BRUSKE ALFRED ; BRUSKE FRANK

Assignee(s): FRANK BRUSKE ; FRANK BURSKE

Inventor(s): (std)**:** BRUSKE ALFRED

Inventor(s): ALFRED BRUSKE

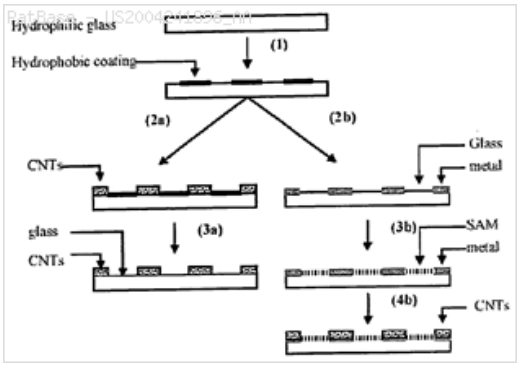
Agent(s): EINSEL MARTIN; SALTER AND MICHAELSON

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

151) Family number: 31000548 (US2004241896A)

Title: METHODS AND APPARATUS FOR PATTERNED DEPOSITION OF NANOSTRUCTURE-CONTAINING MATERIALS BY SELF-ASSEMBLY AND RELATED ARTICLES

Abstract: Methods and apparatus are described for patterned deposition of nanostructure-containing materials by self-assembly and related articles. According to an exemplary embodiment self-assembly method for depositing nanostructure-containing materials includes forming a nanostructure-containing material. The nanostructure-containing material is chemically functionalized and dispersed in a liquid medium to form a suspension. At least a portion of a substrate having a surface that can attract the functionalized nanostructure-containing material is brought into contact with the suspension. The substrate is separated from the suspension. The nanostructure-containing material adheres to the portion of the substrate when separated from the suspension. According to another exemplary embodiment, hydrophilic and hydrophobic regions are formed on the surface of the substrate before bringing the substrate into contact with the suspension. The functionalized nanostructure-containing material is hydrophilic and adheres to the hydrophilic region of the substrate when separated from the suspension.



Classifications:
International (IPC 8-9): B05D1/18 B05D3/06 B05D5/08 B82B1/00 B82B3/00 C01B31/02 G03F7/40 H01J9/02 H01L21/02 H01L21/027 H01L21/26 H01L21/469 H01L21/76 (Advanced/Invention); B05D1/00 B05D1/02 B05D3/06 B05D5/08 (Advanced/Non-invention); B05D1/18 B05D3/06 B05D5/08 B82B1/00 B82B3/00 G03F7/40 H01J9/02 H01L21/02 H01L21/70 (Core/Invention); B05D1/00 B05D1/02 B05D3/06 B05D5/08 (Core/Non-invention); C25D (Subclass/Invention)
International (IPC 1-7): C01B31/02 C25D H01J9/02 H01L21/26 H01L21/469 H01L21/76
CPC: Y10S977/883 H01J9/025 B05D1/002 B05D1/02 B05D1/18 B05D1/185 B05D3/065 B05D3/068 B05D5/08 B05D2203/35 B82Y10/00 B82Y30/00 B82Y40/00 G03F7/40 G03F7/405 H01J2201/30469
European: B05D1/18C B82Y10/00 B82Y30/00 B82Y40/00 G03F7/40 G03F7/40D H01J9/02B2 L05D1/00C L05D1/02 L05D1/18 L05D203/35 L05D3/06C5 L05D3/06E L05D5/08 L82T201/01S T01J201/304D4H
US: 430/5 430/5S 438/48 438/48P 438/678 438/787 438/790 977/883

Family:

Publication number	Publication date	Application number	Application date
CN100490076 C	20090520	CN200480013780	20040319
CN1802727 A	20060712	CN200480013780	20040319
EP1618601 A2	20060125	EP20040749410	20040319
EP1618601 A4	20061108	EP20040749410	20040319
JP2006525129 T2	20061109	JP20060507351T	20040319
KR20060003332 A	20060110	KR20057017664	20040319
TW200500298 A	20050101	TW20040107661	20040322
TWI296609 B	20080511	TW20040107661	20040322
US2004241896 AA	20041202	US20040803639	20040318
US6969690 BB	20051129	US20040803639	20040318
WO04083490 A2	20040930	WO2004US08400	20040319
WO04083490 A3	20050630	WO2004US08400	20040319

Priority:
US20030456254P 20030321 US20040803639 20040318 WO2004US08400 20040319

Probable Assignee: OF NORTH CAROLINA AT CHAPEL HILL UNIV

Assignee(s): (std): UNIV NORTH CAROLINA ; OH SOOJIN ; ZHANG JIAN ; SHIMODA HIDEO ; CHENG YUAN ; UNIV NORTH CAROLINA AT CHEPEL ; ZHOU OTTO Z

Assignee(s): NA SA ; NASA ; NAVY SECRETARY OF UNITED STATES OF AMERICA ; NORTH CAROLINA AT CHAPEL HILL UNIV ; OF NORTH CAROLINA AT CHAPEL HILL UNIV ; UNIVERSITY OF NORTH CAROLINA ; OF NORTH CAROLINA AT CHEPEL HILL UNIV ; THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL ; THE UNIVERSITY OF NORTH CAROLINA AT CHEPEL HILL

Inventor(s): (std): ZHOU OTTO Z ; OH SOOJIN ; ZHANG JIAN ; CHENG YUAN ; SHIMODA HIDEO ; ZHANG JI AN ; CHENG YU AN ; HIDEO ZHOU OTTO Z OH SOOJIN ZH ; HIDEO SHIMODA ; SOOJIN OH ; YUAN CHENG ; JIAN ZHANG ; OH SOO JIN

Inventor(s): Z ZHOU OTTO Z ; ZHOU OTTO Z OH SOOJIN ZHANG JIAN CHENG YUAN SHIMOD

Agent(s): BUCHANAN INGERSOLL PC

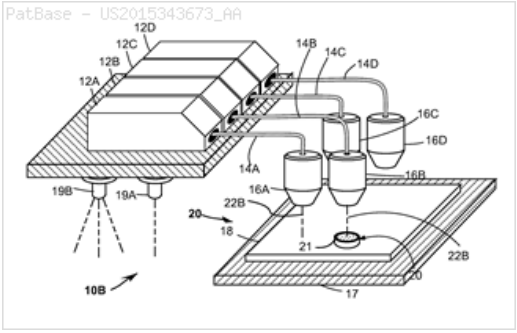
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO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

152) Family number: 60976548 (US2015343673A)

Title: METHOD FOR MANUFACTURING AN OPTICAL ELEMENT

Abstract: A methods to manufacture optics and optical subsystems. In one aspect, a method to manufacture an optical-element in accordance with the present invention comprises the steps of: Printing at least a part of a mold with an additive manufacturing printer. Optically figuring the mold to the specifications of the desired optical-element. Printing a nanocomposite-ink into the mold. Selectively, curing the nanocomposite-ink. Repeating at least the steps of deposition of the nanocomposite-ink and selective curing, until the mold is sufficiently filled and cured. Optionally, releasing the optical-element from the mold.
Classifications:
International (IPC 8-9): B01F11/02 B01F13/10 B01F15/00 B01F15/02 B01F5/06 B01J19/00 B05D5/04 B05D5/12 B29C33/38 B29C39/02 B29C39/12 B29C67/00 B29D11/00 B33Y10/00 B33Y50/02 B33Y80/00 B41F31/00 B41F31/02 B41J2/01 B41J2/175 B82Y20/00 B82Y30/00 B82Y40/00 C09D11/00 C09D11/322 C09D11/38 C09D11/52 G02B1/00 G02B1/04 G02B1/10 G02B1/111 G02B1/12 G02B13/00 G02B13/14 G02B27/00 G02B27/42 G02B3/00 G02B3/08 G02B5/00 G02B5/18 G02F1/00 G02F1/035 G02F1/061 G02F1/065

G02F1/29 G02F1/35 G02F1/361 G02F1/365 G05B15/02 G05B19/042 G06Q20/12 G06Q50/04 H01B1/12 H01L29/16 H01S3/00 (Advanced/Invention);
B01F3/12 B29C41/36 B29L11/00 B29L31/00 B82Y20/00 G02F1/355 (Advanced/Non-invention)
CPC: B29C39/026 B29C39/12 B29L2011/0083 G06Q20/1235 G06Q50/04 G02F1/035 G02B3/0087 G02B3/08 G02B1/041 C09D11/38 G02B13/14 C09D11/52 Y10T428/24802 Y10T428/24917 Y10T428/24926 B01J19/0093 B01J2219/00819 B41J2/01 B41J2/175 G02F1/065 B29D11/00682 B29D11/00355 G02F1/0316 G02F1/2255 G02F2001/212 B29C33/3842 B29C39/021 B29C41/36 B29D11/0048 B29D11/00663 B29L2011/00 B29L2031/756 B33Y10/00 B33Y80/00 G05B19/0426 G05B2219/2646 Y02P90/265 Y02P90/30 B41J29/02 C09D11/30 B29C64/386 B29C64/112 B41F31/00 B01F5/0661 B01F11/02 B01F13/1063 B01F2003/125 B01F2215/0059 B41F31/02 C09D11/00 G02B2207/101 B33Y50/02 B82Y30/00 B82Y40/00 C09D11/322 G02B1/002 H01L29/1606 G02B13/143 G02B13/146 B82Y20/00 G02B3/0043 G02B5/008 G02B27/0025 G02F1/3501 G02F1/3511 G02F1/3526 G02F1/353 G02F1/355 G02F1/361 G02F1/365 G02F2001/3505 G02F2001/354 G02F2202/36 Y10S977/783 Y10S977/834 G02B3/0037 H01S3/0092
US: 1/1 264/1.37 264/1.9 347/20 359/245 359/326 359/329 359/355 359/356 359/615 359/652 359/654 366/150.1 366/151.1 385/2 422/129 427/122 427/162 427/553 427/554 427/58 428/195.1 428/209 428/210 700/97 705/39 977/783 977/834



Family:

Publication number	Publication date	Application number	Application date
CN107430295 A	20171201	CN201580077889	20151217
CN107530733 A	20180102	CN201580077968	20151217
DE112015005987 T5	20171012	DE201511005987T	20151217
DE112015005990 T5	20171026	DE201511005990T	20151217
JP2018501527 T2	20180118	JP20170556510T	20151217
JP2018508836 T2	20180329	JP20170556511T	20151217
US2015343673 AA	20151203	US20140554399	20141126
US2015343707 AA	20151203	US20150618965	20150210
US2015346521 AA	20151203	US20150599917	20150119
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US2015362762 AA	20151217	US20140307071	20140617
US2016067659 AA	20160310	US20140480515	20140908
US2016067974 AA	20160310	US20140480426	20140908
US2016121601 AA	20160505	US20160991026	20160108
US2016377956 AA	20161229	US20160197466	20160629
US2019127595 AA	20190502	US20180224512	20181218
US2019330482 AA	20191031	US20190507658	20190710
US9308731 BB	20160412	US20140480426	20140908
US9442344 BB	20160913	US20140293574	20140602
US9507182 BB	20161129	US20150599917	20150119
US9539802 BB	20170110	US20160991026	20160108
US9579829 BB	20170228	US20140554399	20141126
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US9644107 BB	20170509	US20150599731	20150119
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US10155872 BB	20181218	US20140307071	20140617
US10310146 BB	20190604	US20140299777	20140609
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WO15187342 A3	20160303	WO2015US30987	20150515
WO15195821 A1	20151223	WO2015US36258	20150617
WO16086207 A1	20160602	WO2015US62807	20151125
WO16118261 A1	20160728	WO2015US66265	20151217
WO16118264 A1	20160728	WO2015US66391	20151217

Priority:

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US20140307071 20140617 US20140480426 20140908 US20140480515 20140908
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US20160991026 20160108 US20160197466 20160629 US20160353729 20161116
US20180224512 20181218 US20190507658 20190710

Probable Assignee: VADIENT OPTICS LLC

Assignee(s): (std): VADIENT INC ; VADIENT OPTICS LLC ; VOXTEL INC ; WILLIAMS GEORGE

Inventor(s): (std): WILLIAMS GEORGE

Agent(s): NACKERUD ERIK

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

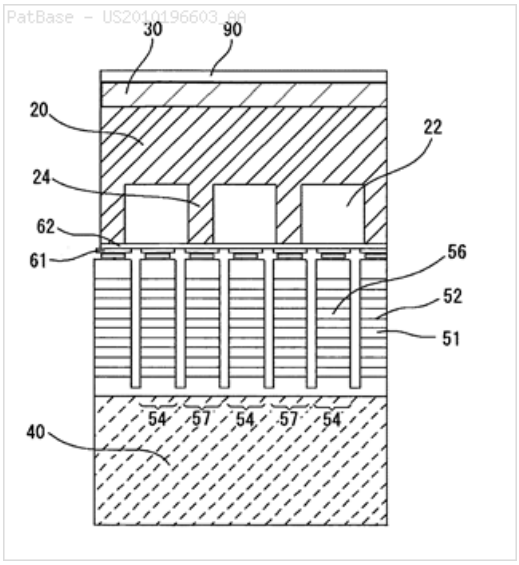
153) Family number: 42989551 (US2010196603A)

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Title: INKJET MEDIUM, INK AND INKJET RECORDING METHOD

Abstract: An inkjet medium having a support mainly containing a cellulose pulp, and a coat layer containing a pigment and an adhesive, the coat layer formed on at least one surface of the support, wherein the pigment in the coat layer as an outermost layer contains at least light calcium carbonate, kaolin and gel type silica, and has an average oil absorption of 70 ml/100 g to 120 ml/100 g.

Classifications:
International (IPC 8-9): B05D5/00 B41J2/01 B41M5/00 B41M5/50 B41M5/52 C08K5/05 G01D11/00 (Advanced/Invention); B05D5/00 B41M5/00 B41M5/50 C08K5/00 (Core/Invention)
International (IPC 1-7): B41M5/00 B41M5/52
CPC: B41M5/5218 B41M5/5236 B41M5/5254
European: B41M5/52C L41M5/52G L41M5/52K
US: 347/100 347/101 347/105 427/288 427/288P 428/32.21 428/32.210S 524/386 524/386S



Family:

Publication number	Publication date	Application number	Application date
CN101772423 A	20100707	CN200880101423	20080829
CN101772423 B	20111221	CN200880101423	20080829
DE602008034693 D1	20141113	DE200860034693T	20080829
EP2183117 A1	20100512	EP20080828761	20080829
EP2183117 A4	20120321	EP20080828761	20080829
EP2183117 B1	20141001	EP20080828761	20080829
IN00366KN2010 A	20100716	IN2010KN00366	20100129
JP2009056615 A2	20090319	JP20070223567	20070830
US2010196603 AA	20100805	US20080671484	20080829
US8425031 BB	20130423	US20080671484	20080829
WO09028733 A1	20090305	WO2008JP66020	20080829

Priority:
JP20070223567 20070830 EP20080828761 20080829 WO2008JP66020 20080829

Probable Assignee: RICOH CO LTD

Assignee(s): (std): FUJI KAKO KK ; KOJIMA YUUJI ; NAGAI KIYOFUMI ; OHSHIMA TOHRU ; ONOGI YASUHARU ; RICOH CO LTD ; RICOH KK

Assignee(s): RICOH COMPANY LTD

Inventor(s): (std): NAGAI KIYOFUMI ; OHSHIMA TOHRU ; ONOGI YASUHARU ; KOJIMA YUUJI ; KOJIMA YUJI ; OSHIMA SUSUMU ; ONOKI KOJI ; TOHRU OHSHIMA ; YUUJI KOJIMA ; YASUHARU ONOGI ; KIYOFUMI NAGAI

Agent(s): MEISSNER BOLTE AND PARTNER GBR; BARZ PETER; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT LLP; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT L L P; HIROTA KOICHI

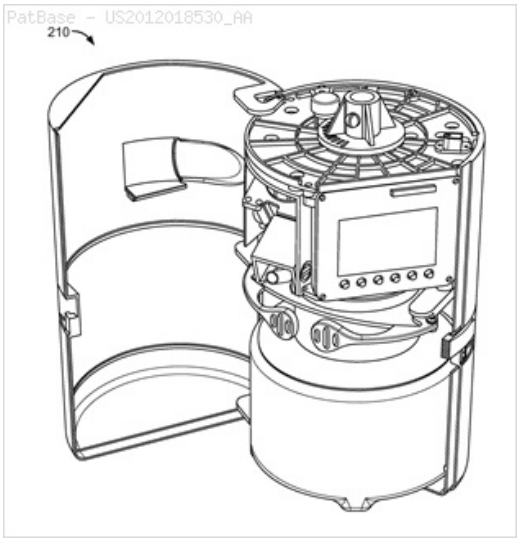
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA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

154) Family number: 50504552 (US2012018530A)

Title: FRAGRANCE DIFFUSION SYSTEM

Abstract: A system for fragrancing air includes an adjustable fan that is used to generate an air flow to push atomized fragrance oil from an output orifice of the system. The fragrance in the air is generated from atomized fragrance oil, where liquid fragrance oil can be stored in a cartridge bottle assembly and then atomized with compressed air in a collector assembly in the system. When the system is mounted on a wall or ceiling, the adjustable fan can be used to direct the fragrance downward at any number of angles from the system. The system can be programmed to adjust a fan speed and various settings of the fragrance delivery.

Classifications:
International (IPC 8-9): A61L9/12 A61L9/14 A61M11/06 B05B12/02 B05B3/02 (Advanced/Invention)
CPC: A61L9/14 A61L9/122 A61L2209/133
European: A61L9/12F A61L9/14 K61L209/133
US: 239/337 239/338 239/338S 239/351 239/372 239/432 239/69 239/69S 239/7 239/71 239/71S 239/7P 261/30 261/64.3 261/69.1 422/124



Family:

Publication number	Publication date	Application number	Application date
DE602011046629 D1	20180419	DE201160046629T	20110714
EP2409716 A2	20120125	EP20110174020	20110714
EP2409716 A3	20120208	EP20110174020	20110714
EP2409716 B1	20180321	EP20110174020	20110714
US2012018530 AA	20120126	US20110180051	20110711
US2012261484 AB	20121018	US20110180051	20110711
US8881999 BB	20141111	US20110180051	20110711

Priority:

US20100366027P 20100720 US20110180051 20110711 EP20110174020 20110714

Probable Assignee: SCENTAIR TECHNOLOGIES INC

Assignee(s): (std)**:** BLAYLOCK ROBERT ; BLAYLOCK ROBERT DAVID ; CHANDLER JOHN ; SCENTAIR TECHNOLOGIES INC ; CONROY TOM ; CHANDLER JOHN THURSTON ; SCENTAIR TECH INC

Assignee(s): SQUARE 1 BANK ; SCENTAIR TECHNOLOGIES INC CHARLOTTE ; SCENTAIR TECHNOLOGIES LLC ; ANTARES CAPITAL LP ADMINISTRATIVE AGENT AS ; GOLDMAN SACHS BANK USA COLLATERAL AGENT AS ; GOLDMAN SACHS SPECIALTY LENDING GROUP LP COLLATERAL AGENT AS ; GOLDMAN SACHS SPECIALTY LENDING GROUP LP COLLATERA

Inventor(s): (std)**:** CONROY TOM ; BLAYLOCK ROBERT DAVID ; CHANDLER JOHN THURSTON ; BLAYLOCK ROBERT ; CHANDLER JOHN

Inventor(s): BLAYLOCK ROBERT DAVID TEGA CAY ; CHANDLER JOHN THURSTON CHARLOTTE ; CONROY TOM NEWTON

Agent(s): PETERREINS FRANK; DENNEMEYER AND ASSOCIATES SA; FISH AND RICHARDSON PC

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

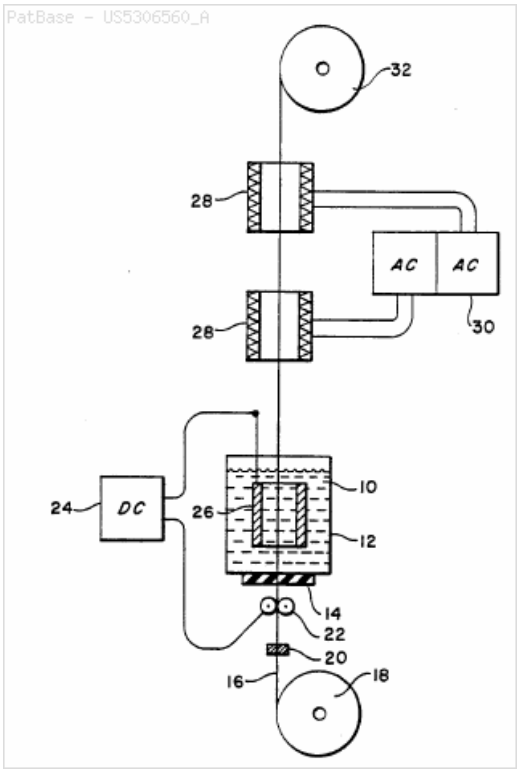
155) Family number: 11544554 (US5306560A)

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Title: CERAMIC COATED FIBERS

Abstract: Ceramic coated fibers may be produced by the electrophoretic deposition of metal oxide coatings on a conductive fiber core.

Classifications:
International (IPC 8-9): C04B35/628 C25D1/14 C25D13/02 C25D13/16 H01B3/12 (Advanced/Invention); C04B35/626 C25D1/00 C25D13/02 C25D13/12 H01B3/12 (Core/Invention)
International (IPC 1-7): B05D3/02
CPC: C04B35/62852 C04B35/62847 C04B35/62897 C04B35/82 C04B2235/3217 C04B2235/3225 C04B2235/3241 C04B2235/3891 C04B2235/441 C04B2235/5216 C04B2235/524 C04B2235/5244 C04B2235/5248 C25D1/14 C25D13/02 C25D13/16 H01B3/12 Y10T428/294
European: C04B35/628F2 C04B35/628F2D C04B35/628T C04B35/82 C25D1/14 C25D13/02 C25D13/16 H01B3/12 M04B235/32F M04B235/32G4 M04B235/32H6 M04B235/38H M04B235/44C M04B235/52D4 M04B235/52D4F M04B235/52D4F2 M04B235/52D4F4
US: 204/491 209/181.4 428/379



Family:

Publication number	Publication date	Application number	Application date
US5306560 A	19940426	US19910637849	19910107

Priority:

US19910637849 19910107

Probable Assignee: RPW ACQUISITION LLC

Assignee(s): (std)**:** UNITED TECHNOLOGIES CORP

Assignee(s): AEROJET ROCKETDYNE INC ; RPW ACQUISITION LLC

Inventor(s): (std)**:** DALZELL JR WILLIAM J ; WRIGHT ROBERT J

156) Family number: 33994556 (US2006280907A)

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Title: NOVEL MINERAL COMPOSITION

Abstract: A mineral composition that contains at least about 90 weight percent of headlap granules, at least about 50 weight percent of calcium carbonate, less than about 100 parts per million of a metal selected from the group consisting of arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver, and less than about 100 parts per million of a polycyclic aromatic hydrocarbon. This composition, when tested in accordance with ASTM Standard Test D 4977-03, loses less than 5 grams of material.

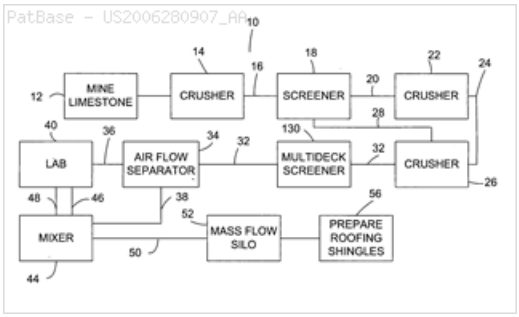
Classifications:

International (IPC 8-9): B05D7/00 B32B3/30 B32B37/00 C04B24/36 C08K9/04 C08L95/00 C09C1/02 C09D195/00 C09D4/00 C09D5/00 D06N7/04 E01F9/04 E04D7/00 E04H12/00 (Advanced/Invention); B32B11/02 D06N5/00 E04D3/18 (Advanced/Non-invention); C09D4/00 C09D5/00 D06N7/00 E01F9/04 E04D7/00 E04H12/00 (Core/Invention)

CPC: Y10T428/2438 Y10T428/24372 C04B18/067 C04B26/26 E04D1/22 C04B2111/00612 A01N59/16 C04B18/02 C04B2103/0043 C04B2111/00586 E04D2001/005 Y02W30/92 C08K9/04 Y10T428/2982 Y10T428/2991 E04D1/20 E04D7/005 E04D1/26 C04B20/1018 Y10T428/24355 Y10T428/24413 Y10T428/258 Y10T428/2998 C04B20/1025

European: A01N59/16 C04B18/02 C04B18/06S C04B20/10B C04B20/10B2F C04B26/26 E04D1/20 E04D1/22 E04D1/26 E04D13/00A M04B103/00N10 M04B111/00T4 M04B111/00T6 P04D1/00G

US: 106/15.05 106/15.050S 106/18.36 106/18.360P 106/284.01 106/284.04 106/284.06 106/284.4 106/285 106/285S 106/465 106/668 106/668S 106/738 106/817 156/62.2 156/62.200S 427/221 427/221S 428/141 428/143 428/143P 428/144 428/144P 428/144S 428/148 428/148P 428/195.1 428/206 428/208 428/330 428/402 428/403 428/407 52/300 52/300P 523/122 523/122S



Family:

Publication number	Publication date	Application number	Application date
US2006280907 AA	20061214	US20050266833	20051104
US2007104923 AA	20070510	US20060638618	20061213
US2007261337 AA	20071115	US20060405966	20060418
US2008173212 AA	20080724	US20070999205	20071204
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WO06133384 A2	20061214	WO2006US22389	20060607
WO06133384 A3	20070322	WO2006US22389	20060607
WO08076279 A1	20080626	WO2007US25408	20071212

Priority:

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Probable Assignee: LHOIST NORTH AMERICA INC

Assignee(s): (std): BRANN RICHARD ; BRANN RICHARD W ; COBURN DENNIS R ; DOWNING RANDALL P ; WHITAKER ROBERT ; SMITH ALLEN E ; FRANKLIN IND MINERALS ; WHITAKER ROBERT H ; HOIST NORTH AMERICA INC L ; PURYEAR DAVID R

Assignee(s): FRANKLIN INDUSTRIAL MINERALS ; LHOIST NORTH AMERICA INC ; L HOIST NORTH AMERICA INC ; FRANKLIN IND ; FRANKLIN IND INC

Inventor(s): (std): WHITAKER ROBERT H ; BRANN RICHARD W ; WHITAKER ROBERT ; BRANN RICHARD ; DOWNING RANDALL P ; SMITH ALLEN E ; COBURN DENNIS R ; PURYEAR DAVID R

Inventor(s): SMITH ALLEN ; PURYEAR DAVID

Agent(s): HOWARD J GREENWALD PC; HOWARD J; GREENWALD HOWARD J

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD 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 YU ZA ZM ZW

157) Family number: 42672557 (US2008307668A)

© PatBase

Title: METHODS AND DEVICES FOR DRYING COATED STENTS

Abstract: Various embodiments of methods and devices for drying coated stents in an oven are described herein.

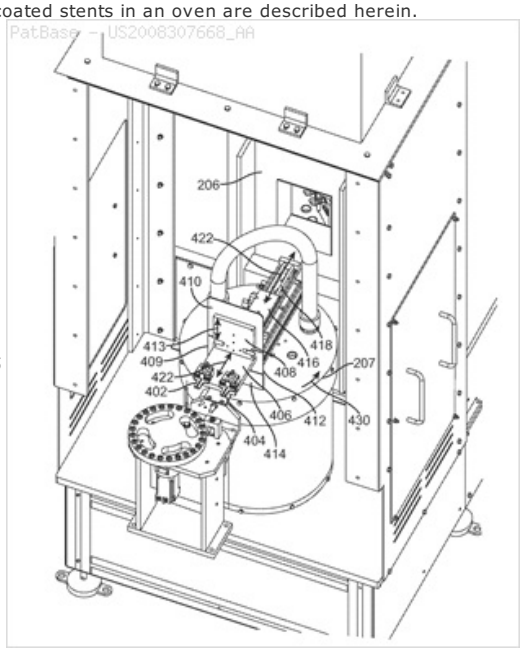
Classifications:

International (IPC 8-9): A61F2/04 A61F2/06 A61F2/82 A61F2/86 A61F2/91 A61F2/915 A61L27/00 A61L33/00 B05B13/00 B05B13/02 B05B13/04 B05B15/02 B05B7/00 B05C11/00 B05C11/02 B05C13/02 B05D1/00 B05D1/02 B05D3/00 B05D7/00 B23K26/40 B23K26/402 B23P17/00 B25J15/00 B25J15/08 B65G15/02 B65G47/24 F24C1/14 F26B15/04 F26B15/18 F26B25/00 F26B25/06 F26B25/12 F26B3/02 F26B7/00 G01G13/00 G01G17/00 G01G19/03 G01G21/28 G01N21/00 G01N21/952 G05B13/02 G06K9/00 H04N7/18 (Advanced/Invention);
A61F2/91 A61F5/04 B05B13/04 B05D1/00 B23K103/00 G01G13/00 G06F19/00 (Advanced/Non-invention);
A61F2/04 A61F2/82 A61L27/00 B05B13/00 B05B13/02 B05B7/00 B05C11/00 B05C11/02 B05C13/02 B05D1/00 B05D1/02 B05D3/00 B65G15/00 F24C1/00 F26B3/02 G01G13/00 G01G17/00 G01G21/00 (Core/Invention)

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European: A61F2/82 A61F2/91 A61F2/915 B05B13/02B1 B05B13/04G B05B15/02B B05D1/02 B23K26/40B7H F26B15/04 F26B25/00B3 G01G17/00 G01G21/22 G01G21/28 G01N21/952 K61F2/90 K61F2/91 K61F2/915G2 K61F2/915G6 K61F240/00M14 K61F250/00W5 K61L420/02 L05B13/04G L05B15/02B L05B7/02 L05D1/00C L05D3/02S

US: 1/1 118/300 118/300S 118/302 118/308 118/317 118/320 118/320S 118/500 118/500S 118/502 118/503 118/681 118/696 118/696S 118/712 118/712S 118/719 126/226 126/226S 137/210 177/145 219/10.55 269/52 29/407.1 29/407.100P 294/86.4 294/86.400P 329/1 34/201 34/203 34/236 34/236S 34/282 34/282P 34/381 34/397 34/413 348/92 348/92P 348/E7.085 348/E70.85S 356/237.1 356/614 382/141 382/141S 414/816 414/816S 424/423 424/487 427/2.1 427/2.12 427/2.14 427/2.21 427/2.24 427/2.240P 427/2.25 427/2.250P 427/240 427/421 427/421.1 427/424 427/425 427/427.1 427/427.2 427/427.3 427/427.4 427/427.5 427/8 55/351 55/55 600/374 600/381 606/197 623/1.11 623/1.110P 623/1.13 623/1.15 623/1.150S 623/1.17 623/1.48 623/2.14 623/23.7 623/23.700P 623/900 700/186 700/192 700/56 700/57 700/57P 700/60 702/173 702/173P 702/175



Family:

Publication number	Publication date	Application number	Application date
DE602008042826 D1	20160428	DE200860042826T	20080428
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US9920991 BB	20180320	US20160296982	20161018
US10279372 BB	20190507	US20170853551	20171222
WO08156920 A2	20081224	WO2008US61806	20080428
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WO09100027 A1	20090813	WO2009US32878	20090202

Priority:

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Probable Assignee: ATS AUTOMATION TOOLING SYSTEMS INC

Assignee(s): (std)**:** ATS AUTOMATION TOOLING SYSTEMS INC ; AUTOMATION TOOLING SYST ; BAILLARGEON RICHARD ; CAMERON IAN ; CHEN YUNG MING ; CURRLIN AMOLDO M ; GLENN BRYAN D ; GARCIA ANTONIO ; ESBECK THOMAS DAVID ; LEHNER STEVEN E ; KILCHENMANN KURT ; GARCIA EDWARD P ; HAIGHT MARK ; CURRLIN ARNOLDO M ; MAW ANDREW DAVID COPPIN ; HEMPHILL BRYAN RUSSELL ; MCKAY ANDREW JAMES ; CHOO SHAULAINE ; MCCABE JEFF ; MAW ANDREW DAVID COPPLN ; CHOO SHUALAINE ; CURRLIN ARNOLDO ; GILLICK MATTHEW J ; COULSON IAN ; WATTERODT SIDNEY ; REGO DAVID ; VAN SCIVER JASON ; PARK SANG JOON ; TUOHY PATRICK A ; SCIVER JASON VAN ; ZHANG HONG ; WLOKA CALDEN ; WAESE AARON ; PAPP JOHN ; PARK SANG JOO ; WAESE AARON MEYER ; PAPP JOHN E ; ABBOTT CARDIOVASCULAR SYSTEMS ; ABBOTT CARDIOVASCULAR SYSTEMS INC ; ABBOTT CARDIOVASULAR SYSTEMS INC ; ANDREACCHI ANTHONY S

Assignee(s): ATS AUTOMATION TOOLING SYSTEMS ; ABBOTT CARDIOVASCULAR SYSTEMS INC SANTA CLARA

Inventor(s): (std)**:** ANDREACCHI ANTHONY S ; WATTERODT SIDNEY ; CHEN YUNG MING ; REGO DAVID ; CURRLIN AMOLDO M ; GLENN BRYAN D ; VAN SCIVER JASON ; GARCIA ANTONIO ; PARK SANG JOON ; TUOHY PATRICK A ; ESBECK THOMAS DAVID ; SCIVER JASON VAN ; LEHNER STEVEN E ; KILCHENMANN KURT ; GARCIA EDWARD P ; HAIGHT MARK ; BAILLARGEON RICHARD ; CURRLIN ARNOLDO M ; MAW ANDREW DAVID COPPIN ; ZHANG HONG ; WLOKA CALDEN ; HEMPHILL BRYAN RUSSELL ; MCKAY ANDREW JAMES ; WAESE AARON ; PAPP JOHN ; CAMERON IAN ; CHOO SHAULAINE ; MCCABE JEFF ; PARK SANG JOO ; MAW ANDREW DAVID COPPLN ; WAESE AARON MEYER ; GILLICK MATTHEW J ; PAPP JOHN E ; CURRLIN ARNOLDO ; CHOO SHUALAINE ; THOMAS DAVID ESBECK ; IAN CAMERON ; BRYAN D GLENN ; EDWARD P GARCIA ; ANTONIO GARCIA ; MARK HAIGHT ; ANTHONY S ANDREACCHI ; ARNOLDO M CURRLIN ; JASON VAN SCIVER ; JOHN PAPP ; KURT KILCHENMANN ; RICHARD BAILLARGEON ; COULSON IAN

Inventor(s): GARCIA ANTONIO SAN JOSE ; CHEN YUNG MING CUPERTINO ; GARCIA EDWARD P DUBLIN ; ESBECK THOMAS DAVID MURRIETA ; WATTERODT SIDNEY CAMBRIDGE ONTARIO ; VAN SCIVER JASON LOS GATOS ; PARK SANG JOON WATERLOO ONTARIO ; GLENN BRYAN D MURRIETA ; LEHNER STEVEN E TEMECULA ; REGO DAVID WATERLOO ONTARIO ; BAILLARGEON RICHARD OCEANSIDE ; CHOO SHAULAINE CAMBRIDGE ONTARIO ; TUOHY PATRICK A TEMECULA ; HAIGHT MARK CAMBRIDGE ONTARIO ; ANDREACCHI ANTHONY S SAN JOSE ; CURRLIN ARNOLDO M SAN DIEGO ; PAPP JOHN TEMECULA ; CAMERON IAN PETTERSBURG ONTARIO ; CHEN YUNG MING SAN JOSE ; GLENN BRYAN D TEMECULA ; PARK SANG JOON WATERLOO ; CURRLIN ARNOLDO M MURRIETA ; REGO DAVID SAN DIEGO ; HAIGHT MARK CAMBRIDGE ; ESBECK THOMAS DAVID SAN DIEGO ; WATTERODT SIDNEY CAMBRIDGE ; CHOO SHAULAINE CAMBRIDGE ; CAMERON IAN PETTERSBURG

Agent(s): MARKS AND CLERK LUXEMBOURG LLP; ZBM PATENTS; ZBM PATENTS ZEA BARLOCCI AND MARKVARDSEN; SQUIRE SANDERS AND DEMPSEY LLP; SQUIRE SANDERS AND DEMPSEY US LLP; SQUIRE SANDERS (US) LLP; SQUIRE SANDERS US LLP; SQUIRE PATTON BOGGS; SQUIRE PATTON BOGGS US LLP; SQUIRE PATTON BOGGS; LUPKOWSKI MARK ET AL; ZHU SONG ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU

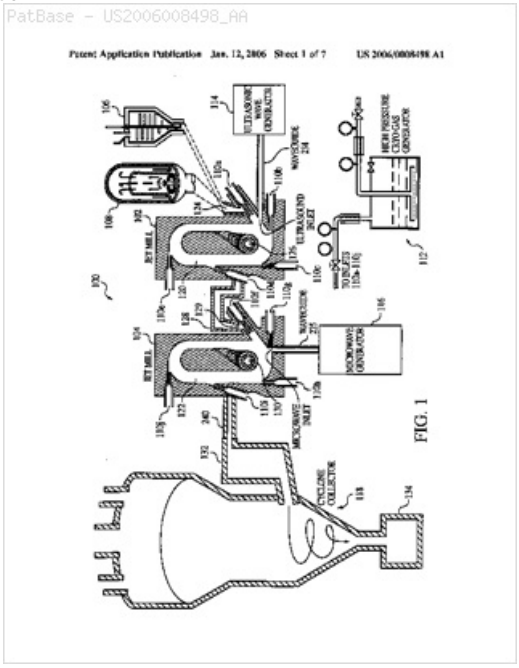
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158) Family number: 32540558 (US2006008498A)

Title: NANO-PARTICLE PRODUCTION

Abstract: Larger particles (e.g., larger than 100 mum) of a material are processed to generate smaller particles having dimensions smaller than 200 nm. At least a portion of the processing is performed under a cryogenic condition and based on at least a physical property of the material under the cryogenic condition.

Classifications:
International (IPC 8-9): A61F13/00 A61K38/28 A61K9/10 A61K9/14 B01J19/00 B01J19/10 B01J19/12 B01J2/04 B29B9/00 B32B9/00 B82B3/00 (Advanced/Invention);
A61F13/00 A61K47/34 A61K9/14 B01D61/02 B05D3/02 B29B9/00 B32B9/00 (Core/Invention)
International (IPC 1-7): A61K47/34 B01D61/02 B02C19/00 B02C23/00 B05D3/02
CPC: A61K9/0019 A61K9/145
European: A61K9/00M5 A61K9/14H4
US: 424/422 424/489



Family:

Publication number	Publication date	Application number	Application date
CA2573657 AA	20070111	CA20052573657	20050708
EP1773265 A2	20070418	EP20050858030	20050708
JP2008505763 T2	20080228	JP20070521528T	20050708
TH75354 A	20060202	TH20051003186	20050711
TW200610577 A	20060401	TW20050123188	20050708
US2006008498 AA	20060112	US20040889615	20040712
WO06135373 A2	20061221	WO2005US24501	20050708
WO06135373 A3	20080117	WO2005US24501	20050708

Priority:
US20040889615 20040712 WO2005US24501 20050708

Probable Assignee: CHEN TZER FEN D

Assignee(s): (std): CHEN TZER FEN D

Inventor(s): (std): CHEN TZER FEN D

Inventor(s): CHEN TZER FEN

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

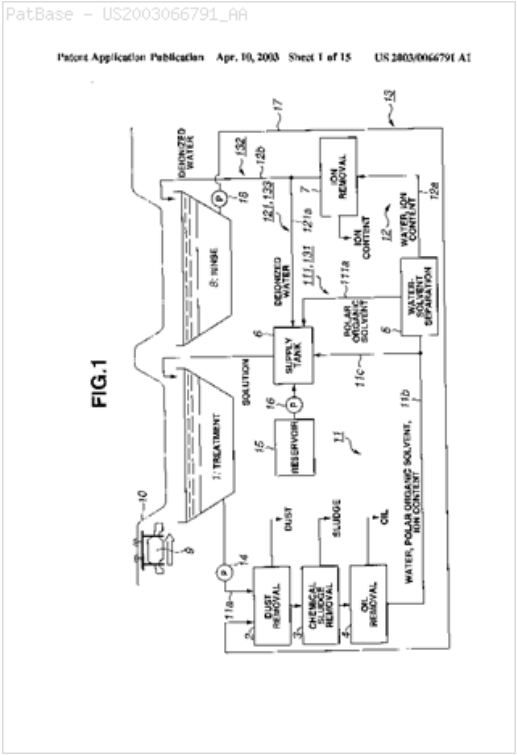
159) Family number: 28211559 (US2003066791A)

Title: APPARATUS FOR PRETREATMENT PRIOR TO PAINTING

Abstract: A pretreatment apparatus for performing pretreatment before a painting process includes a treatment tank to be filled with a treatment liquid for degreasing and chemical conversion. A circuit section forms a circulation path for circulating the treatment liquid from the treatment tank to the treatment tank. A purifying section removes dust, chemical sludge and oil from the treatment liquid circulated to the treatment tank through the circulation path.

Classifications:
International (IPC 8-9): B01D12/00 B01D17/00 B01D17/022 B01D17/032 B01D17/04 B01D21/02 B01D21/24 B01D21/26 B01D21/28 B01D3/00 B01D3/10 B01D61/14 B01D61/36 B01J39/04 B01J39/20 B01J41/04 B01J41/14 B03C1/00 B03C1/02 B03C1/12 B05B15/00 B05B15/04 B05C21/00 B05C3/09 B05C9/10 B05D3/00 C02F1/04 C02F1/42 C23C22/00 C23C22/12 C23C22/73 C23C22/78 C23C22/86 C23G3/00 C23G5/032 C23G5/04 (Advanced/Invention);
B01D12/00 B01D17/00 B01D17/02 B01D17/025 B01D17/04

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International (IPC 1-7): B01D12/00 B01D17/00 B01D17/022 B01D17/032 B01D17/04 B01D21/02 B01D21/24 B01D21/26 B01D21/28 B01D3/00 B01D3/10 B01D61/14 B01D61/36 B01J39/04 B01J39/20 B01J41/04 B01J41/14 B03C1/00 B03C1/02 B03C1/12 B05B15/00 B05B15/04 B05C21/00 B05C3/09 B05C9/10 B05D3/00 B08B3/10 C02F1/00 C02F1/04 C02F1/42 C23C22/00 C23C22/12 C23C22/73 C23C22/78 C23C22/86 C23G1/36 C23G3/00 C23G5/032 C23G5/04 C25D13/00
CPC: C23C22/184 C23C22/86 C23C22/00
European: C23C22/00 C23C22/86
US: 134/10 134/109 134/111 210/167 210/167.29 210/167.31 210/259 210/416.1



Family:

Publication number	Publication date	Application number	Application date
CN1292845 C	20070103	CN20021042676	20020917
CN1404928 A	20030326	CN20021042676	20020917
EP1293589 A2	20030319	EP20020019122	20020829
EP1293589 A3	20041013	EP20020019122	20020829
JP2003160881 A2	20030606	JP20020080515	20020322
JP2003293154 A2	20031015	JP20020102786	20020404
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JP2003299996 A2	20031021	JP20020106145	20020409
KR100492433 B1	20050531	KR20020056030	20020916
KR20030024594 A	20030326	KR20020056030	20020916
TH63567 A	20040827	TH20021003453	20020913
US2003066791 AA	20030410	US20020244604	20020917
US6893556 BB	20050517	US20020244604	20020917

Priority:

JP20010281632 20010917 JP20020080515 20020322 JP20020102781 20020404 JP20020102786 20020404 JP20020106145 20020409

Probable Assignee: NISSAN MOTOR CO LTD

Assignee(s): (std): NISSAN MOTOR CO LTD ; NISSAN MOTOR ; NITTO MOTOR CO LTD

Assignee(s): NIS N MOTOR CO LTDSA ; NISSAN MOTOR CO ; NISSAN MOTOR COMPANY LIMITED ; NITTO MOTOR CO

Inventor(s): (std): AL TANAKA OSAMU ET ; TSUNEO SAKATA ; HIDEAKI YAEGASHI ; OBIKA MASAHIRO ; KISHI HIROYUKI ; TANAKA OSAMU ; SAKAUCHI TSUNEO ; YAEGASHI HIDEAKI ; TANAKA OSAMU ET AL ; SAKATA TSUNEO ; OSAMU YAEGASHI HIDEAKI SAKATA

Inventor(s): YAEGASHI HIDEAKI SAKATA TSUNEO TANAKA OSAMU

Agent(s): FOLEY AND LARDNER LLP

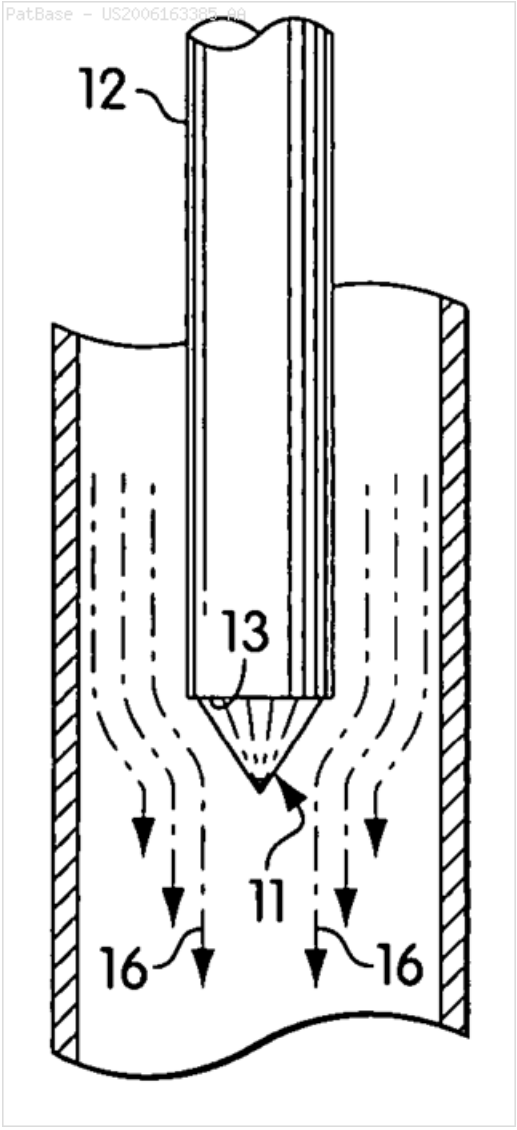
Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

160) Family number: 31169559 (US2006163385A)

Title: FORMATION AND CONTROL OF FLUIDIC SPECIES

Abstract: This invention generally relates to systems and methods for the formation and/or control of fluidic species, and articles produced by such systems and methods. In some cases, the invention involves unique fluid channels, systems, controls, and/or restrictions, and combinations thereof. In certain embodiments, the invention allows fluidic streams (which can be continuous or discontinuous, i.e., droplets) to be formed and/or combined, at a variety of scales, including microfluidic scales. In one set of embodiments, a fluidic stream may be produced from a channel, where a cross-sectional dimension of the fluidic stream is smaller than that of the channel, for example, through the use of structural elements, other fluids, and/or applied external fields, etc. In some cases, a Taylor cone may be produced. In another set of embodiments, a fluidic stream may be manipulated in some fashion, for example, to create tubes (which may be hollow or solid), droplets, nested tubes or droplets, arrays of tubes or droplets, meshes of tubes, etc. In some cases, droplets produced using certain embodiments of the invention may be charged or substantially charged, which may allow their further manipulation, for instance, using applied external fields. Non-limiting examples of such manipulations include producing charged droplets, coalescing droplets (especially at the microscale), synchronizing droplet formation, aligning molecules within the droplet, etc. In some cases, the droplets and/or the fluidic streams may include colloids, cells, therapeutic agents, and the like.
Classifications:
International (IPC 8-9): B01F13/00 B01F5/06 B01J13/00 B01J19/00 B01J19/06 B01J19/08 B01J2/04 B01L3/00 B05B5/025 B05B5/03 B05B5/057 B05B7/06 B81B1/00 B81C99/00 C12N15/00 C12N5/10

C12Q1/04 G01N37/00 (Advanced/Invention)
International (IPC 1-7): B01F13/00 B01F5/06 B01J2/04 B05B5/025 B05B5/25 B05B7/06
CPC: B01F5/0682 B01F13/0062 B01F13/0071 B01F13/0076 B01F2215/0431 B01J2/04 B05B5/03 B05B7/061 B01L3/502715 B01L3/50273 B01L3/502784 B01L2200/0673 B01L2300/0867 B01L2400/02 B01L2400/0415 B01L2400/0424
European: B01F13/00M B01F13/00M2A B01F13/00M4A B01F13/00M6A B01F5/06F B01J2/04 B05B5/03 B05B7/06A L01F215/04F2F
US: 1/1 204/601 204/604 239/10 239/3 239/423 239/423S 239/424 239/424P 239/434 239/704



Family:

Publication number	Publication date	Application number	Application date
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EP1610888 A2	20060104	EP20040759306	20040409
EP2127736 A1	20091202	EP20080165420	20040409
EP2266687 A2	20101229	EP20100181911	20040409
EP2266687 A3	20110629	EP20100181911	20040409
EP3023140 A1	20160525	EP20150194786	20040409
EP3023140 B1	20191009	EP20150194786	20040409
JP2006523142 T2	20061012	JP20060509830T	20040409
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JP2017006920 A2	20170112	JP20160183376	20160920
JP2017209671 A2	20171130	JP20170134056	20170707
JP5666216 B2	20150212	JP20100198393	20100903
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WO04091763 A2	20041028	WO2004US10903	20040409
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Probable Assignee: PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Assignee(s): (std): CHENG ZHENGDONG ; HARVARD COLLEGE ; LINK DARREN R ; LINK DARREN ROY ; MARQUEZ SANCHEZ MANUEL ; PRESIDENT AND FELLOWS OF HARVARD COLLEGE ; WEITZ DAVID A

Assignee(s): THE PRESIDENT AND FELLOWS OF HARVARD COLLEGE ; NATIONAL SCIENCE FOUNDATION

Inventor(s): (std): DARREN R LINK ; DAVID A WEITZ ; MANUEL MARQUEZ SANCHEZ ; CHENG ZHENGDON ; CHENG ZHENGDONG ; MARQUEZ SANCHEZ MANUEL ; WEITZ DAVID A ; LINK DARREN R ; LINK DARREN ROY

Inventor(s): LINK DARREN ; WEITZ DAVID ; ZHENGDONG CHENG

Agent(s): PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; PIZZEYS; CASSAN MACLEAN; CASSAN MACLEAN IP AGENCY INC; KILLIN STEPHEN JAMES; COWLEY CATHERINE MARY; MCNAMARA KATHRYN; TANAKA MITSUO; YAMAZAKI HIROSHI; WOLF GREENFIELD AND SACKS PC

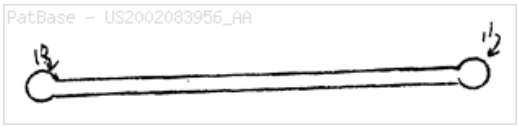
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161) Family number: 30377565 (US2002083956A)

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Title: Physical improvements in coated monofilament dental tapes

Abstract: Disclosed are coated monofilament dental tapes with physical improvements including patient-friendly edges and self-indicating releasable coatings.



Classifications:

International (IPC 8-9): A45D44/18 A46B3/04 A46B5/00 A46B9/04 A61C15/00 A61C15/04 A61C17/00 A61C5/00 A61F13/00 A61K A61K6/00 A61K8/00 A61K8/02 A61K8/06 A61K8/18 A61K8/21 A61K8/25 A61K8/31 A61K8/34 A61K8/35 A61K8/42 A61K8/43 A61K8/49 A61K8/73 A61K8/81 A61K8/89 A61K8/92 A61K8/96 A61K8/97 A61K9/20 A61K9/68 A61K9/70 A61P1/02 A61Q11/00 B01J13/00 B05D3/12 B29C55/02 C08J5/18 C08J7/04 C08L23/06 D01D4/02 D01F6/82 D02G3/00 D06M11/45 D06M11/71 D06M11/76 D06M11/77 D06M11/79 D06M13/00 D06M15/00 D06M15/53 D06M23/08 (Advanced/Invention);
B29L7/00 B29L9/00 D06M101/18 (Advanced/Non-invention);
A45D44/00 A46B3/00 A46B5/00 A46B9/00 A61C15/00 A61C17/00 A61C5/00 A61F13/00 A61K6/00 A61K8/00 A61K8/02 A61K8/04 A61K8/18 A61K8/19 A61K8/30 A61K8/72 A61K8/96 A61K9/20 A61K9/68 A61K9/70 A61Q11/00 B01J13/00 B05D3/12 B29C55/02 D01D4/00 D01F6/78 D02G3/00 (Core/Invention);
A61C (Subclass/Invention)

International (IPC 1-7): A45D44/18 A46B9/04 A61C015/00 A61C015/04 A61C15/00 A61C15/04 A61K6/00 A61K7/00 A61K7/16 A61K7/18 A61K9/00 A61K9/70 A67C15/00 B29C55/02 C08J5/18 C08K5/05 C08L23/06 C08L47/00 C08L91/06 D01D4/02 D01F6/82 D06M13/00 D06M15/53

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European: A61C15/00 A61C15/04 A61C15/04B A61K6/00 A61K7/16P A61K8/02 A61K8/02C A61K8/02M A61K8/06 A61K8/11 A61K8/21 A61K8/25 A61K8/34F A61K8/43 A61K8/49H A61K8/49P A61K8/73C A61K8/81C2 A61K8/86 A61K8/96C A61K8/97 A61K9/20K4 A61K9/70B A61Q11/00 D01F6/82 D06M15/53 K61C15/02 K61C15/04B K61K201/08 K61K201/09 K61K201/107 K61K201/113 K61K201/115 K61K201/117 K61K201/119 K61K201/40 K61K800/56 K61K800/70

US: 132/321 132/321S 132/323 132/323S 424/401 424/405 424/443 424/48 424/48P 424/49 424/49P 424/49S 424/52 424/52S 427/2.14 427/2.140S 433/217.1 433/217.100S 524/277 524/386 524/487 524/487S 525/88 525/88S 525/92.00A 525/92A 525/92R 525/93

Family:

Publication number	Publication date	Application number	Application date
AU2001286633 AA	20020806	AU20010286633	20010823
AU2001286633 BB	20050609	AU20010286633	20010823
AU2001286660 AA	20021021	AU20010286660	20010823
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AU2003291664 AA	20040729	AU20030291664	20031030
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DE10393587 T5	20051103	DE20031093587T	20031030
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EP1311205 A1	20030521	EP20010966147	20010823
EP1311206 A1	20030521	EP20010966148	20010823
EP1311206 A4	20080102	EP20010966148	20010823
EP1359862 A1	20031112	EP20010966092	20010823
EP1372523 A2	20040102	EP20010966120	20010823
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EP1474092 A4	20051012	EP20020784770	20021211
ES2524593 T3	20141210	ES20010966120T	20010823
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GB200619718 A0	20061115	GB20060019718	20061005
GB200721181 A0	20071205	GB20070021181	20071029
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GB2411596 B2	20080326	GB20050006110	20031030
GB2430885 A1	20070411	GB20060019718	20061005
GB2439698 A1	20080102	GB20070021181	20071029
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HK1070815 A1	20050630	HK20050103465	20050422
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US7025986 BB	20060411	US20020073682	20020211
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WO0215814 A1	20020228	WO2001US26384	20010823
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WO08048910 A2	20080424	WO2007US81331	20071015
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Probable Assignee: WHITEHILL ORAL TECHNOLOGIES INC

Assignee(s): (std): DALE G BROWN ; HILL IRA ; HILL IRA D ; HILL JAMES MCKENZIE ; INTERNAT TAPE PARTNERS LLC ; PERI DENT LTD ; ROBERTS IAN ; PERI DEAT LTD ; SCHWEIGERT MICHAEL ; INT TAPE PARTNERS LLC ; BARLOW DAVID ; BROWN DALE ; BROWN DALE G ; DALE BROWN ; LEPPLE ROBERT C ; WHITE ROBERT D ; SCHWEIGERT MICHAEL R ; WHITEHILL ORAL TECH INC

Assignee(s): WHITEHILL ORAL TECHNOLOGIES INC ; PERI DENT LTD GALASHIELS ; INT TAPE PARTNERS LLC 12701 EXECUTIVE DRIVE SUITE 614 ; ROBERT D WHITE ; INTERNATIONAL TAPE PARTNERS LLC ; PERI DENT LIMITED ; PERI DEAT LIMITED ; IRA D HILL ; IRA HILL

Inventor(s): (std): MICHAEL R SCHWEIGERT ; DALE G BROWN ; IRA D HILL ; BROWN DALE G ; HILL IRA D ; HILL JAMES MCKENZIE ; BARLOW DAVID ; ROBERTS IAN ; SCHWEIGERT MICHAEL ; BROWN DALE ; LEPPLE ROBERT C ; WHITE ROBERT D ; SCHWEIGERT MICHAEL R

Inventor(s): ROBERT D WHITE ; BARLOW DAVID TWEEDBANK ; ROBERTS IAN TWEEDBANK ; BROWN DALE G WHARTON ; HILL IRA D LOCUST ; HILL JAMES MCKENZIE TWEEDBANK ; LEPPLE ROBERT ; HILL IRA

Agent(s): CALLINANS; FISHER ADAMS KELLY CALLINANS; SPRUSON AND FERGUSON; SMART AND BIGGAR; RICHES MCKENZIE AND HERBERT LLP; RIDOUT AND MAYBEE LLP; PATENTANWAELTE MAGENBAUER AND KOLLEGEN PARTNERSCHAFT MBB; PARNHAM KEVIN; CURELL MIREIA; CLT PATENT AND TRADEMARK HK LTD UNIT 10 34 F OFFICE TOWER CONVENTION; HITOSHIO AKIO; TSUBOKURA MICHIAKI; ONO MAKOTO; OSAKI KATSUMASA; KAWAGUCHI YOSHIO; BANNER AND WITCOFF LTD; LINEK ERNEST V

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 YU ZA ZM ZW

162) Family number: 28689566 (US2003117691A)

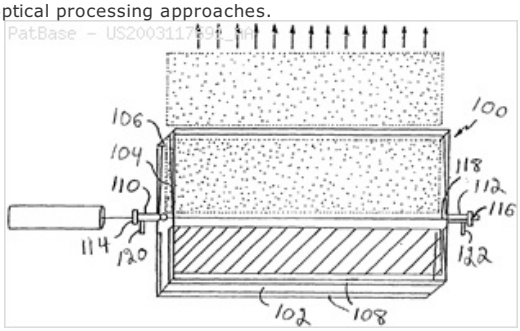
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Title: THREE DIMENSIONAL ENGINEERING OF PLANAR OPTICAL STRUCTURES

Abstract: Three dimensional optical structures are described that can have various integrations between optical devices within and between layers of the optical structure. Optical turning elements can provide optical pathways between layers of optical devices. Methods are described that provide for great versatility on contouring optical materials throughout the optical structure. Various new optical devices are enabled by the improved optical processing approaches.

Classifications:

International (IPC 8-9): G02B1/00 H01S3/00 A21B2/00 A45D20/40 A61K8/19 A61K8/27 A61K8/29 A61Q17/04 B01J10/00 B01J12/00 B01J12/02 B01J19/00 B01J19/08 B01J19/10 B01J19/12 B01J19/26 B01J23/32 B01J4/00 B05C19/04 B05C19/06 B05D3/06 B24B37/00 B29D11/00 B32B13/04 B32B19/00 B32B27/04 B32B27/08 B32B27/12 B32B27/18 B32B27/34 B32B27/36 B32B27/38 B32B27/40 B32B3/00 B32B3/18 B32B5/02 B32B5/16 B32B7/04 B32B9/04 B82B1/00 B82B3/00 C01B33/113 C01B33/12 C01B33/18 C01F1/00 C01F7/02 C01F7/30 C01G1/00 C01G23/00 C01G23/04 C01G31/00 C01G31/02 C01G45/00 C01G45/02 C01G45/12 C01G51/00 C01G53/00 C01G9/02 C01G9/03 C03B19/14 C03B37/012 C03B37/014 C03B37/027 C04B35/14 C08G18/38 C08G79/14 C08G83/00 C08K3/00 C08K3/08 C08K3/10 C08K3/18 C08K3/22 C08K9/08 C08L101/00 C09C1/04 C09G1/02 C09K11/02 C09K11/08 C09K11/54 C09K11/56 C09K11/59 C09K11/63 C09K11/67 C09K11/77 C09K11/78 C09K3/14 C11D3/14 C11D7/14 C22B19/00 C23C16/04 C23C16/22 C23C16/40 C23C16/44 C23C16/455 C23C16/48 C23C24/10 C23C26/00 C23C26/02 C23C28/00 C23C28/04 C23C4/12 D01F6/52 G01N1/02 G01N1/10 G02B1/02 G02B1/04 G02B5/00 G02B5/18 G02B6/00 G02B6/02 G02B6/12 G02B6/122 G02B6/124 G02B6/13 G02B6/132 G02B6/32 G02F1/01 G03C1/00 G03C5/00 G09F9/00 H01B1/02 H01B1/06 H01B1/08 H01C7/112 H01J1/62 H01J1/63 H01J29/10 H01J29/18 H01J29/20 H01J61/35 H01J61/40 H01J61/42 H01J61/46 H01J63/04 H01L21/304 H01M10/05 H01M10/052 H01M10/0525 H01M10/32 H01M10/36 H01M2/16 H01M4/06 H01M4/13 H01M4/131 H01M4/1391 H01M4/34 H01M4/36 H01M4/40 H01M4/48 H01M4/485 H01M4/50 H01M4/505 H01M4/52 H01M4/525 H01M4/54 H01M4/58 H01M4/62 H01M4/66 H01M6/16 H01S3/063 H05B3/10 H05B33/14 (Advanced/Invention);
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Family:

Publication number	Publication date	Application number	Application date
AU2002303385 AA	20021111	AU20020303385	20020418
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CA2349945 AA	20010507	CA19992349945	19991108
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CN1329575 A	20020102	CN19998014156	19991108
CN1347561 A	20020501	CN20008006379	20000308
DE69828434 D1	20050203	DE19986028434	19981029
DE69828434 D1	20050203	DE19986028434T	19981029
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EP1131154 A1	20010912	EP19990956959	19991108
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EP1166286 A1	20020102	EP20000917798	20000308
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EP1886802 A2	20080213	EP20070021923	20020801
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JP2002529224 T2	20020910	JP20000580743T	19991108
JP2002529352 T2	20020910	JP20000580940T	19991108
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KR20050111650 A	20051125	KR20057021072	20001106
KR20060017566 A	20060223	KR20067001791	19981029
KR20070051949 A	20070518	KR20077009304	20070424
TW200305738 A	20031101	TW20020136122	20021213
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Probable Assignee: NEOPHOTONICS CORP

Assignee(s): (std): MOSSO RONALD J ; KHAN SARDAR HYAT ; KUMAR SUJEET ; LOPEZ HERMAN ADRIAN ; HUY NGUYEN TRAN ; HORNE CRAIG RICHARD ; NANO GRAM CORP ; BI XIANGXIN ; BRYAN MICHAEL A ; CHAPIN MICHAEL EDWARD ; CHIRUVOLU SHIVKUMAR ; MESHANNAK CORP ; NANOGRAM CORP ; NEVIS ELIZABETH ANNE ; NEOPHOTONICS CORP ; EUVRARD ERIC ; NEO PHOTONICS CORP

Assignee(s): REITZ HARIKLIA DRIS ; GARDNER JAMES T ; NANOGRAM DEVICES CORP ; SRI INT ; NEOPHOTONICS CORP FREMONT ; NANOGRAM CORP FREMONT ; KAMBE NOBUYUKI ; HORNE CRAIG R ; CORNELL RONALD M ; NANOGAM CORP

Inventor(s): (std): BI XIANGXIN ; NEVIS ELIZABETH ANNE ; MOSSO RONALD J ; CHAPIN MICHAEL EDWARD ; CHIRUVOLU SHIVKUMAR ; KHAN SARDAR HYAT ; KUMAR SUJEET ; LOPEZ HERMAN ADRIAN ; HUY NGUYEN TRAN ; HORNE CRAIG RICHARD ; BRYAN MICHAEL A ; EUVRARD ERIC ; THE HUY NGUYEN TRAN ; REITZ HARIKLIA DRIS ; REITZ HARIKLIA D ; KUMAR SUJEEK ; HARIKLIA DRIS REITZ ; SUJEET KUMAR ; NEVIS ELIZABETH A ; CHAPIN MICHAEL E ; KHAN SARDAR H ; LOPEZ HERMAN A ; HUY NGUYEN T T ; HORNE CRAIG R ; GARDNER JAMES T ; MCGOVERN WILLIAM E ; DEMASCAREL PIERRE J ; LYNCH ROBERT B ; CHIRUVOLO SHIVKUMAR ; LIM SEUNG M ; KORNE CRAIG R ; CORNELL RONALD M ; KAMBE NOBUYUKI ; CORNELL JAMES T GARDNER SUJEET ; GHANTOUS DANIA I ; HOANG KHANH ; BUCKLEY JAMES P ; KORNE SUJEET KUMAR BI XIANGXIN ; HONEKER CHRISTIAN C ; HARIKLIA D REITZ ; SUJEEK KUMAR ; HUY NGUYEN TRAN THE ; XIANGXIN BI ; MICHAEL A BRYAN ; SARDAR HYAT KHAN ; CRAIG RICHARD HORNE ; ELIZABETH ANNE NEVIS ; RONALD J MOSSO ; SHIVKUMAR CHIRUVOLU ; ERIC EUVRARD ; NGUYEN TRAN HUY ; HERMAN ADRIAN LOPEZ ; MICHAEL EDWARD CHAPIN ; RONALD M CORNELL ; JAMES T GARDNER ; BLUM YIGAL DOV ; XIANGXIN HARIKLIA D REITZ SUJE ; MACQUEEN DAVID B ; BLUM YIGAL D ; MACQUEEN DAVID BRENT ; HONECKER CHRISTIAN C ; BLUM YIGAL DO ; DARDI PETER S

Inventor(s): HARIKLIA D REITZ SUJEEK KUMAR BI XIANGXIN ; NGUYEN TRAN THE HUY ; BRYAN MICHAEL ; NEVIS ELIZABETH ; MACQUEEN DAVID ; HONEKER CHRISTIAN ; BLUM YIGAL ; KHAN SARDAR ; HUY NGUYEN ; LOPEZ HERMAN ; CHAPIN MICHAEL ; HORNE CRAIG ; GARDNER JAMES ; MOSSO RONALD ; DEMASCAREL PIERRE ; LYNCH ROBERT ; MCGOVERN WILLIAM ; CHIRUVOLU SHIVKUMAR AND ; SUJEET KUMAR BI XIANGXIN CRAIG R KORNE ; HUY NGUYEN TT ; JAMES T GARDNER SUJEET KUMAR RONALD M CORNELL ; CRAIG R KORNE

Agent(s): MARKS AND CLERK; FURMAN AND KALLIO; GEYER FEHNERS AND PARTNER; KANDA FUJIHIRO; TOMITA HIROYUKI; ONO SHINJIRO; SHAMOTO ICHIO; KOBAYASHI YASUSHI; CHIBA AKIO; AOKI ATSUSHI; ISHIDA TAKASHI; KOGA TETSUJI; PATTERSON THUENTE SKAAR AND CHRISTENSEN PA 4800 IDS CENTER; PATTERSON THUENTE SKAAR AND CHRISTENSEN PA; DARDI AND ASSOCIATES PLLC SUITE 2000; DARDI AND ASSOCIATES PLLC US BANK PLAZA; DARDI AND ASSOCIATES PLLC; DARDI PETER S; PETER S; BARDI AND ASSOCIATES PLLC; DARDI AND HERBERT PLLC; CURTIS B

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

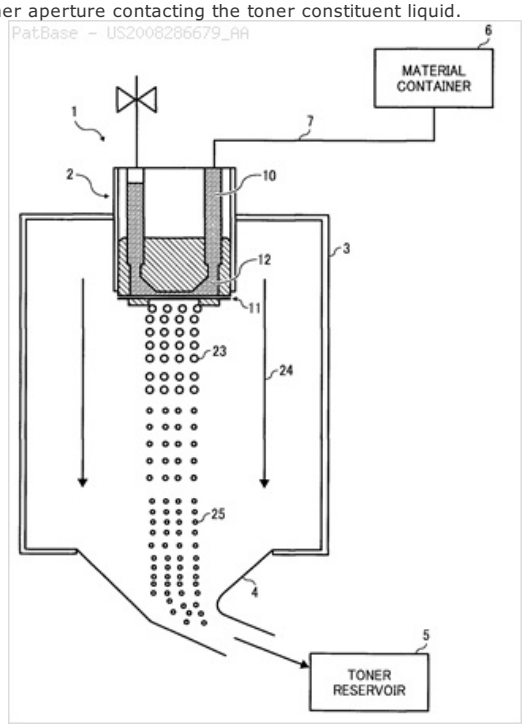
163) Family number: 42509571 (US2008286679A)

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Title: TONER PREPARATION METHOD AND APPARATUS, AND TONER PREPARED THEREBY

Abstract: A method of preparing a toner, including periodically dripping and discharging droplets of a toner constituent liquid comprising a resin and a colorant with a dripper comprising a thin film comprising plural nozzles configured to discharge the droplets, and an electromechanical converter configured to oscillate the thin film; and solidifying the droplets to form toner particles, wherein the nozzle has an aperture discharging the droplet, having a circular or an ellipsoidal cross-sectional shape and cross-sectional area smaller than a cross-sectional area of another aperture contacting the toner constituent liquid.

Classifications:
International (IPC 8-9): B01D9/02 B01J2/02 B01J2/04 B05B17/04 B05B17/06 B29B9/10 G03G5/00 G03G9/08 G03G9/087 G03G9/09 (Advanced/Invention);
B01D9/00 B01J2/02 B05B17/04 G03G5/00 G03G9/08 G03G9/087 G03G9/09 (Core/Invention)
CPC: B29B9/10 B29B2009/125 B01J2/04 G03G9/0804 G03G9/0819
European: B01J2/04 G03G9/08B2 G03G9/08D
US: 264/13 422/245.1 422/245.100S 425/10 425/6 430/105 430/105S 430/110.3 430/110.4 430/110.400P 430/137.14 430/137.140S 430/137.19



Family:

Publication number	Publication date	Application number	Application date
CN101308339 A	20081119	CN200810099597	20080516
CN101308339 B	20120125	CN200810099597	20080516
EP1992994 A2	20081119	EP20080251696	20080514
EP1992994 A3	20090722	EP20080251696	20080514
JP2008286913 A2	20081127	JP20070130295	20070516
JP2013148918 A2	20130801	JP20130061465	20130325

JP5229606 B2	20130703	JP20070130295	20070516
JP5553251 B2	20140716	JP20130061465	20130325
US2008286679 AA	20081120	US20080120379	20080514
US8568628 BB	20131029	US20080120379	20080514

Priority:

JP20070130295 20070516 JP20130061465 20130325

Probable Assignee: RICOH CO LTD

Assignee(s): (std): HONDA TAKAHIRO ; NORIKANE YOSHIHIRO ; OHTANI SHINJI ; RICOH CO LTD ; RICOH KK ; SUZUKI KAZUMI ; WATANABE YOHICHIROH

Assignee(s): RICOH COMPANY LTD ; RICOH CO

Inventor(s): (std): WATANABE YOICHIRO ; OTANI SHINJI ; SHINJI OHTANI ; KAZUMI SUZUKI ; YOHICHIROH WATANABE ; YOSHIHIRO NORIKANE ; TAKAHIRO HONDA ; SUZUKI KAZUMI ; HONDA TAKAHIRO ; NORIKANE YOSHIHIRO ; WATANABE YOHICHIROH ; OHTANI SHINJI

Agent(s): LEEMING JOHN GERARD; COOPER AND DUNHAM LLP

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

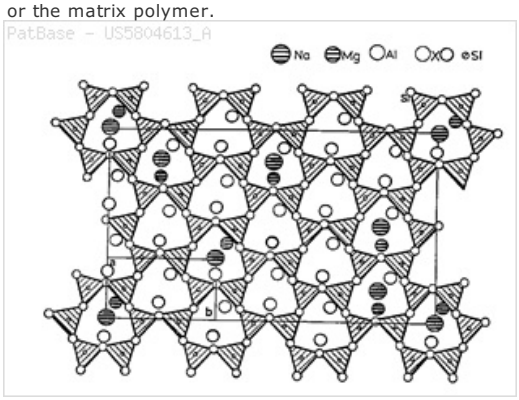
164) Family number: 23969572 (US5804613A)

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Title: Intercalates and exfoliates formed with monomeric carbonyl-functional organic compounds, including carboxylic and polycarboxylic acids; aldehydes; and ketones; composite materials containing same and methods of modifying rheology therewith

Abstract: Intercalates formed by contacting a layered material, e.g., a phyllosilicate, with an intercalant monomer carbonyl-functional compound and/or a carboxylic acid-functional compound to sorb or intercalate the intercalant monomer between adjacent platelets of the layered material. Sufficient intercalant monomer is sorbed between adjacent platelets to expand the adjacent platelets to a spacing of at least about 5 ANGSTROM (as measured after water removal to a maximum of 5 percent by weight water), up to about 100 ANGSTROM and preferably in the range of about 10-45 ANGSTROM, so that the intercalate easily can be exfoliated into individual platelets. The intercalated complex can be combined with an organic liquid into a viscous carrier material, for delivery of the carrier material, or for delivery of an active compound; or the intercalated complex can be combined with a matrix polymer to form a strong, filled polymer matrix. Alternatively, the intercalated complex can be exfoliated prior to combination with the organic liquid or the matrix polymer.

Classifications:
International (IPC 8-9): C01B33/38 C01B33/44 C08K7/26 C08K9/04 (Advanced/Invention); C01B33/00 C08K9/00 (Core/Invention)
International (IPC 1-7): A61K47/24 B05D7/00 C01B33/38 C01B33/44 C08J3/20 C08K3/34 C08K7/26 C08K9/00 C08K9/06 C08L33/02
CPC: C01B33/44 C08K9/04 Y10T428/259 Y10T428/31725 F16C2240/64
European: C01B33/44 C08K9/04
US: 106/416 106/417 106/483 106/484 106/486 106/487 106/632 252/315.2 427/220 428/297 428/331 428/446 428/454 428/474.4 501/141 501/145 501/148 523/200 523/207 523/209 523/212 523/213 523/216 524/442 524/445 524/446 524/447



Family:

Publication number	Publication date	Application number	Application date
AT214683 E	20020415	AT19960305675T	19960801
CA2182557 AA	19970623	CA19962182557	19960801
DE69619946 D1	20020425	DE19966019946	19960801
DE69619946 T2	20020829	DE19966019946T	19960801
EP0780340 A1	19970625	EP19960305675	19960801
EP0780340 B1	20020320	EP19960305675	19960801
JP9175816 A2	19970708	JP19960213610	19960813
MX9603367 A1	19970628	MX19960003367	19960814
US5804613 A	19980908	US19950577557	19951222
US5830528 A	19981103	US19960654648	19960529
US5880197 A	19990309	US19950577558	19951222
US6083559 A	20000704	US19980158491	19980922
US6126734 A	20001003	US19980158490	19980922
US6287634 BA	20010911	US19950577700	19951222
US6461423 BA	20021008	US20000578129	20000524

Priority:

US19950577557 19951222 US19950577558 19951222 US19950577700 19951222
US19960654648 19960529 CA19962182557 19960801 US19980158490 19980922
US19980158491 19980922 US20000578129 20000524

Probable Assignee: AMCOL INT CORPORATON A DELAWARE CORP

Assignee(s): (std): AMCOL INT CORP

Assignee(s): AMCOL INT CORP ARLINGTON HEIGHTS ; AMCOL INT CORPORATON A DELAWARE CORP ; ANKORU INTERNATL CORP ; BEALL GARY W ; SOROKIN ANATOLIY ; TSIPURSKY SEMEON ; GOLDMAN ANATOLIY ; JPMORGAN CHASE BANK NA ADMINISTRATIVE AGENT AS ; AMCOL INT ; AMCOL INT A DELAWARE CORP

Inventor(s): (std): GOLDMAN ANTOLIY ; BEALL GARY W ; TSIPURSKY SEMEON ; SOROKIN ANATOLIY ; GOLDMAN ANATOLIY ; GIYARII DABURIYU BIIRU ; SEMEON TEIPURUSUKII ; ANATORII GOORUDOMAN ; ANATORII SOROKIN

Inventor(s): ANATOLIY SOROKIN ; ANATOLIY GOLDMAN ; SEMEON TSIPURSKY ; GARY W BEALL

Agent(s): FETHERSTONHAUGH AND CO

Designated states: AT DE ES FR GB IT PT

165) Family number: 34530573 (US2011036921A)

Title: VOLATILE LIQUID DROPLET DISPENSER DEVICE

Abstract: A volatile liquid droplet dispenser for containing a liquid to be dispensed, with a first substrate having a space for containing the liquid, and having an outlet With at least one outlet nozzle, the first substrate further having the space adjacent to the liquid outlet, to receive the liquid such that the liquid may exit through at least one outlet nozzle of the outlet, a second substrate having a liquid inlet, and an actuating membrane arranged to actuate liquid in the space. The first substrate also has a fluidic channel interconnected to the space and arranged to laterally connect the liquid inlet means to the space, thereby conveying the liquid to the space by way of lateral capillary action. The outlet is eccentric to the liquid inlet and in a vertical plane that is substantially the same or lower than the plane of the liquid inlet, depending on the liquid used.

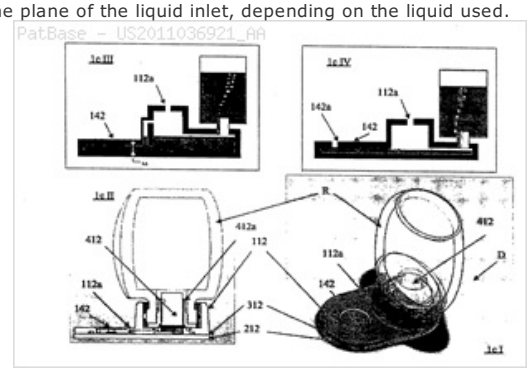
Classifications:

International (IPC 8-9): A24F25/00 A61L9/01 A61L9/12 A61L9/14 B05B17/00 B05B17/06 (Advanced/Invention); B05B17/04 (Core/Invention)

CPC: B05B17/0638 A61L9/01 A61L9/127 A61L9/145 B05B17/0646 B05B17/0669 B05B17/0676 B05B17/0684

European: A61L9/01 A61L9/12W A61L9/14L B05B17/06B5 B05B17/06B7D B05B17/06B7F B05B17/06B7F2 L05B17/06B5F L05B17/06B99B20 L05B17/06B99B30 L05B17/06B99B30B

US: 239/44 239/44P



Family:

Publication number	Publication date	Application number	Application date
AT451181 E	20091215	AT20060776075T	20060623
DE602006011050 D1	20100121	DE200660011050T	20060623
EP1792662 A1	20070606	EP20050026083	20051130
EP1954407 A1	20080813	EP20060776075	20060623
EP1954407 B1	20091209	EP20060776075	20060623
ES2336365 T3	20100412	ES20060776075T	20060623
US2011036921 AA	20110217	US20060095695	20060623
US9604242 BB	20170328	US20060095695	20060623
WO07062698 A1	20070607	WO2006EP06059	20060623

Priority:

EP20050026083 20051130 EP20060776075 20060623 WO2006EP06059 20060623

Probable Assignee: APTAR FRANCE SAS

Assignee(s): (std): FERIANI AMIR ; HESS JOSEPH ; MICROFLOW ENG SA ; APTAR FRANCE SAS ; CRAVERO LUCIANO ; MICROFLOW ENGUINEERING SA ; QUES VICTOR ; NOBLE STEWART

Assignee(s): EP SYSTEMS SA ; MICROFLOW ENGINEERING S A ; MICROFLOW ENGINEERING SA

Inventor(s): (std): HESS JOSEPH ; FERIANI AMIR ; CRAVERO LUCIANO ; NOBLE STEWART ; QUES VICTOR

Agent(s): BALSTERS ROBERT; GRIFFIN AND SZIPL 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 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 YU ZA ZM ZW

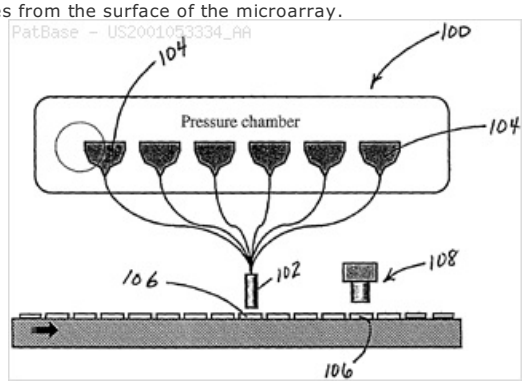
166) Family number: 30085576 (US2001053334A)

Title: MICROARRAY FABRICATION TECHNIQUES AND APPARATUS

Abstract: Disclosed is a microarray printing system and methods of printing probe microarrays. The system has a print-head formed of one or more capillary bundle, such as light-guiding capillaries. The bundles may especially be bundles of capillaries that provide a large number of probes on the surface of a substrate. Methods of registering or correlating the distal and proximal ends of the capillaries are also provided. Further, the invention provides methods and equipment for identifying defective microarrays that are missing one or more probes from the surface of the microarray.

Classifications:

International (IPC 8-9): A61K31/137 A61K31/7036 A61K9/12 A61M11/00 A61M11/06 A61M15/00 A61M16/00 A61M16/04 A61M16/08 A61M16/10 A61P11/06 A61P11/08 A61P31/04 A62B7/00 A62B9/06 B01J19/00 B01J4/00 B01L3/00 B01L3/02 B01L9/00 B41J2/01 B81B1/00 C07B61/00 C12M1/00 C12M1/34 C12N15/09 C12Q1/68 C40B40/06 C40B40/10 C40B60/14 G01N21/25 G01N21/64 G01N33/48 G01N33/53 G01N33/543 G01N35/10 G01N37/00 (Advanced/Invention);
A61M11/00 A61M16/00 A61M16/04 A61M16/08 A61M16/10 B01J19/00 B01J4/00 B41J2/01 B81B1/00 C12M1/00 C12N15/09 C12Q1/68 C40B40/06 C40B40/10 C40B40/12 C40B50/14 C40B60/14 G01N33/53 G01N35/10 G01N37/00 (Advanced/Non-invention);
A61M11/00 A61M15/00 A61M16/00 A61M16/04 B01J19/00 B01L3/00 B01L3/02 B01L9/00 C07B61/00 C12M1/34 C12Q1/68 G01N21/25 G01N21/64 G01N33/48 (Core/Invention);
A61M16/08 A61M16/10 B81B1/00 C40B40/04 C40B50/14 C40B60/14 G01N35/10 (Core/Non-invention);



A61H (Subclass/Invention)
International (IPC 1-7): A61H A61H0/00 A61M11/00 A61M16/00 A61M16/04 A62B7/00 A62B9/06 B01J16/00 B01J19/00 B01J4/00 B01L1/00 B01L3/00 B01L3/02 B05D3/00 B41J2/01 B41K1/38 B81B1/00 C07H21/02 C07H21/04 C12M1/00 C12M1/34 C12M3/00 C12N15/09 C12Q1/68 G01N1/00 G01N33/48 G01N33/53 G01N33/543 G01N33/545 G01N37/00 G02B6/00 G02B6/02
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Family:

Publication number	Publication date	Application number	Application date
AU200143228 A1	20010903	AU20010043228	20010222
AU200143228 A5	20010903	AU20010043228	20010222
AU200162913 A1	20010903	AU20010062913	20010222
AU200162913 A5	20010903	AU20010062913	20010222
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AU2009233671 BB	20130207	AU20090233671	20091106
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CA2400789 AA	20020816	CA20012400789	20010222
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CA2485340 C	20150929	CA20032485340	20030507
CA2895488 AA	20040826	CA20032895488	20030507
CN1404415 A	20030319	CN20018005476	20010222
CN1416365 A	20030507	CN20018005471	20010222
DE60345263 D1	20140102	DE20036045263	20030507
EP1257354 A2	20021120	EP20010916171	20010222
EP1257355 A2	20021120	EP20010937149	20010222
EP1515768 A2	20050323	EP20030815899	20030507
EP1515768 A4	20110202	EP20030815899	20030507
EP1515768 B1	20131106	EP20030815899	20030507
EP2647400 A1	20131009	EP20130174988	20030507
JP2003529056 T2	20030930	JP20010561433T	20010222
JP2004502923 T2	20040129	JP20010561434T	20010222
JP2006512184 T2	20060413	JP20050515723T	20030507
JP4898223 B2	20120314	JP20050515723T	20030507
KR101033097 B1	20110506	KR20047017981	20030507
KR101178005 B1	20120828	KR20107026845	20030507
KR20020097181 A	20021231	KR20027010973	20010222
KR20030003686 A	20030110	KR20027010917	20010222
KR20050038591 A	20050427	KR20047017981	20030507
KR20100134798 A	20101223	KR20107026845	20030507
MXPA04011020 A1	20060127	MX2004PA11020	20030507
TW200407178 A	20040516	TW20030112417	20030507

TWI343265 B	20110611	TW20030112417	20030507
US2001053334 AA	20011220	US20010791998	20010222
US2001055801 AA	20011227	US20010791411	20010222
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WO0162377 A2	20010830	WO2001US05695	20010222
WO0162377 A3	20020314	WO2001US05695	20010222
WO0162378 A2	20010830	WO2001US05844	20010222
WO0162378 A3	20020207	WO2001US05844	20010222
WO02078834 A2	20021010	WO2002US05316	20020219
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WO03042697 A1	20030522	WO2002US36838	20021114
WO04071368 A2	20040826	WO2003US14708	20030507
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Priority:

US20000183737P 20000222	US20000188872P 20000313	US20000216265P 20000706
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Probable Assignee: RESEARCH FOUNDATION OF STATE UNIV OF NEW YORK

Assignee(s): (std): CHEN SHIPING ; GENOSPECTRA INC ; LUO YULING ; QAZEN MASOUD ; NIKIFOROV THEO ; NGUYEN QUAN ; RES FOUNDATION ; PALMER LUCY B ; RESEARCH FOUNDATION OF STATE UNIV OF NEW YORK ; BUTLER JOHN ; CHEN ANTHONY ; CHEN ANTHONY C ; RES FOUNDATION FOR STATE UNIV OF NEW YORK ; STATE UNIV OF NEW YORK ; XIAO JIANMING ; THIELE JOCHEN ; STATE UNIVERTSITY OF NEW YORK ; SMALDONE GERALD C ; UNIV NEW YORK STATE RES FOUND ; UNIV NEW YORK ; SMALDONE GERALD

Assignee(s): STATE UNIV OF NEW YORK AT STONY BROOK STONEY BROOK ; THE RESEARCH FOUNDATION OF STATE UNIVERSITY OF NEW YORK ; RESEARCH FOUNDATION STATE UNIV OF NEW YORK AT STONY BROOK ; STATE UNIV OF NEW YORK AT STONY BROOK ; THE RESEARCH FOUNDATION OF STATE UNIVERSITY OF NEW ; THE RESEARCH FOUNDATION ; THE STATE UNIVERSITY OF NEW YORK AT STONY BROOK ; THE STATE UNIVERTSITY OF NEW YORK ; THE STATE UNIVERSITY OF NEW YORK ; STATE UNIV ; SHEN ZHIYONG ; RESEARCH FOUNDATION ; LI KAIJUN ; NGUYEN HOANG M ; QAZAN MASOUD ; RESEARCH FOUNDATION STATE UNIV ; RESEARCH FOUNDATION OF STATE UNIV ; RESEARCH FOUNDATION STATE UNIV OF NEW YORK AT STON ; RESEARCH FOUNDATION FOR STATE UNIV OF NEW YORK ; RESEARCH FOUNDATION OF STATE UNIV NEW YORK

Inventor(s): (std): CHEN SHIPING ; LUO YULING ; CHEN ANTHONY C ; LI KAIJUN ; NGUYEN HOANG M ; QAZEN MASOUD ; NIKIFOROV THEO ; NGUYEN QUAN ; SMALDONE GERALD C ; PALMER LUCY B ; SHEN ZHIYONG ; SMALDONE GERALD ; CHEN ANTHONY ; THIELE JOCHEN ; QAZAN MASOUD ; BUTLER JOHN ; XIAO JIANMING ; YULING LUO ; SHIPING CHEN

Inventor(s): CHEN ANTHONYC ; PALMER LUCY ; PALMER LUCY B NISSEQUOGUE ; JOHN BUTLER ; ANTHONY CHEN ; MASOUD QAZEN ; JOCHEN THIELE ; JIANMING XIAO ; ANTHONY C CHEN ; GERALD C SMALDONE ; LUCY B PALMER

Agent(s): FB RICE; FB RICE PTY LTD; SPRUSON AND FERGUSON; BORDEN LADNER GERVAIS LLP; SMART AND BIGGAR; GLAWE DELFS MOLL PARTNERSCHAFT MBB VON PATENT U RECHTSANWAELTEN; GLAWE DELFS MOLL; KINSLER MAUREEN CATHERINE; TSURUTA JUNICHI; NISHIYAMA MASAYA; HIGUCHI SOTOJI; ISHIDA TAKASHI; SHIMIZU HATSUSHI; CHANG SOO KIL; KIM YOUNG; JINSANG JEONG; LEE

KI SUK; PARK JONG HYEOK; JOHN S ROBERTS MEDLEN AND CARROLL LLP; MEDLEN AND CARROLL LLP; MORRISON AND FOERSTER LLP

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

167) Family number: 30127577 (US2002011247A)

Title: METHODS AND APPARATUS FOR STORING CHEMICAL COMPOUNDS IN A PORTABLE INHALER

Abstract: The invention provides exemplary aerosolization apparatus and methods for aerosolizing a substance. According to one exemplary method, a liquid is transferred from a first chamber into a second chamber having a substance that is in a dry state to form a solution. The solution is then transferred from the second chamber and onto an atomization member. The atomization member is operated to aerosolize the solution.

Classifications:

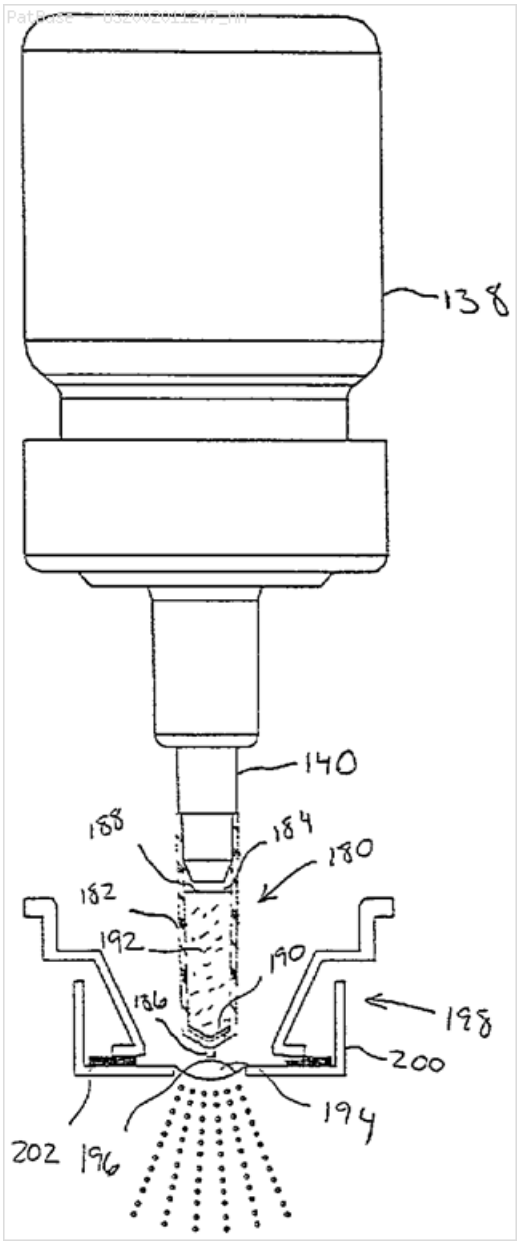
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A61K A61M (Subclass/Invention)

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US: 128/200.14 128/200.140P 128/200.140S 128/200.16 128/200.160P 128/200.18 128/200.22 128/200.23 128/200.230P 128/200.230S 128/203.12 128/203.120S 128/203.15 128/203.150S 128/600.16 222/129 239/102 239/102.1 239/102.100P 239/102.2 239/102.200 239/102.200P 239/102.200S 239/103 239/104 239/11 239/11S 239/120 239/124 239/338 239/4 239/406 239/4P 239/552 239/556 239/556S 239/601 239/601S 239/69 239/696 239/71 346/1.1 346/11 346/139C 346/140.1 346/140R 346/141 347/1 347/47 347/54 347/70 60/44.8 604/186 604/246 604/48 604/514 604/92



Family:

Publication number	Publication date	Application number	Application date
AR247686 A1	19950331	AR19920322209	19920427
AT141217 E	19960815	AT19920106964T	19920423
AT304833 E	20051015	AT19990928560T	19990610
AT451905 E	20100115	AT19990020405T	19990610
AU199654421 A1	19961023	AU19960054421	19960403
AU199670100 A1	19970319	AU19960070100	19960822
AU199945603 A1	19991230	AU19990045603	19990610
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EP0794838 A4	19991201	EP19960931415	19960822
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EP0822865 A4	20001025	EP19960911579	19960403
EP0822865 B1	20040811	EP19960911579	19960403
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EP1009363 A4	20021120	EP19990928560	19990610
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US2003019493 AA	20030130	US20010812988	20010320
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US5164740 A	19921117	US19910691584	19910424
US5586550 A	19961224	US19950521641	19950831
US5758637 A	19980602	US19960604313	19960221
US5938117 A	19990817	US19950417311	19950405
US6014970 A	20000118	US19980095737	19980611
US6085740 A	20000711	US19980058344	19980410
US6205999 BA	20010327	US19980149426	19980908
US6427682 BA	20020806	US20000483096	20000114
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Priority:

US19910691584	19910424	US19910726777	19910708	CA19922066838	19920422
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Probable Assignee: NOVARTIS AG

Assignee(s): (std): AEROGEN INC ; CATER MIRO S ; DE YOUNG LINDA R ; FLUID PROPULSION TECHNOLOGIES ; FLUID PROPULSION TECHN INC ; FLUID PROPULSION TECHNOLOGIES INC ; IVRI YEHUDA ; YEHUDA IVRI ; WU CHENG H ; FLIERL MARKUS ; NOVARTIS PHARMA AG ; NOVARTIS AG ; KUMAR VIJAY

Assignee(s): STAMFORD DEVICES LTD ; FLUID PROPULSION TECHNOLOGIES INC SANTA CLARA CALIF US ; KLIMOWICZ MIKE ; NARAYAN SHARAD ; DEYOUNG LINDA R ; SF CAPITAL PARTNERS LTD ; FURUIDO PUROPARUSHIYON TECHNOL INC ; FLUID PROPULSION TECHNOLOGIES INC SANTA CLARA CALI ; FLUID PROPULSION TECHNOLGIES INC

Inventor(s): (std): KLIMOWICZ MIKE ; SMITH NIALL ; POWER JOHN ; IFUDA AIBURI ; NARAYAN SHARAD ; DEYOUNG LINDA R ; CATER MIRO S ; KUMAR VIJAY ; FLIERL MARKUS ; YOUNG LINDA R DE ; BORLAND SCOTT ; MARTIN JONATHAN ; SEMANS SCOTT ; DE YOUNG LINDA R ; IVRI YEHUDA ; WU CHENG H ; WU CHENG ; CATER S ; DEYOUNG R ; WU H ; CHENG H WU ; LINDA R DEYOUNG ; VIJAY KUMAR ; MARKUS FLIERL ; YEHUDA IVRI ; MIRO S CATER

Inventor(s): IVRI YEHUDA PALO ALTO CA94306 US ; SHARAD NARAYAN ; DE YOUNG LINDA R EL GRANADA ; KUMAR VIJAY SUNNYVALE ; FLIERL MARKUS SUNNYVALE ; IVRI YEHUDA IRVINE ; WU CHENG H SUNNYVALE ; CATER MIRO S DAYTONA BEACH ; JOHN POWER ; NIALL SMITH ; LINDA R DE YOUNG ; MIKE KLIMOWICZ

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; HERBERT SMITH FREEHILLS; FPA PATENT ATTORNEYS PTY LTD; FETHERSTONHAUGH AND CO; SCHWABE SANDMAIR MARX; KAZI ILYA; CLARK JANE ANNE; Clark Jane Anne; CARVAJAL Y ISABEL; HONG KONG PATENT AGENCY; TOWNSEND AND TOWNSEND AND CREW LLP; MICHAEL J; ZILKA KOTAB PC

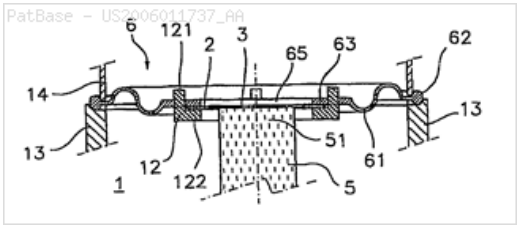
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168) Family number: 28997579 (US2006011737A)

Title: LIQUID SPRAY HEAD, APPARATUS COMPRISING A LIQUID SPRAY-HEAD AND CONTAINER THEREFORE

Abstract: The invention relates to a liquid spray-head, container and apparatus for exterminating crawling insects. The liquid spray-head comprises: a housing to be secured to a container containing a sprayable liquid; a liquid ejecting member connected to said housing, to be contacted with a liquid providing member for providing liquid to said liquid ejecting member; and a vibrating actuator connected to said liquid ejecting member for actuating said liquid ejecting member so as to generate a spray of liquid. The spray-head comprises a flexible member extending from an outer perimeter of said liquid ejecting member to an inner wall of the housing for providing a flexible connection between said housing and said liquid ejecting member, the flexible member being arranged so as to provide a stable working contact between said liquid ejecting member and said liquid providing member.



Classifications:
International (IPC 8-9): A01M1/20 A01M13/00 A61L9/14 B05B1/08 B05B17/00 B05B17/06 B65D83/00 (Advanced/Invention); A01M1/20 A01M13/00 A61L9/14 B05B1/02 B05B17/00 B05B17/04 B65D83/00 (Core/Invention)
International (IPC 1-7): A01M1/20 A01M13/00 A61L9/14 B05B17/06 B65D83/00
CPC: A01M1/2033 A01M1/205 A01M2200/011 A61L9/145 A61L2209/22 B05B17/0646 B05B17/0684
European: A01M1/20A A01M1/20C2F A01M1/20C2L2 A61L9/14L B05B17/06B5F B05B17/06B7F2 K01M200/011 K01M201/01 K61L209/220 L05B17/06B99B30B
US: 239/102.1 239/102.100P

Family:

Publication number	Publication date	Application number	Application date
AT348665 E	20070115	AT20030707252T	20030211
AU2002230267 AA	20030904	AU20020230267	20020211
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RU2309011 C2	20071027	RU20040127239	20030211
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US2006011737 AA	20060119	US20050504061	20050808
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Priority:

WO2002NL00053 20020211 WO2003NL00101 20030211

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): SARA LEE INC ; SARA LEE DE BV ; SARA LEE DE N ; SARA LEE DE B V ; SARA LEE DE NV ; SARA LEENDE N V ; SARA LE DE N V ; SARA LEE DE N V ; LEE DE NV SARA ; LEE DE SARA NV ; MARTINEZ RODRIQUEZ ELISABET ; MIRO AMENOS JORDI ; PROCTER AND GAMBLE ; SARA LEE CORP

Assignee(s): SARA LE DE NV ; PROCTER AND GAMBLE CO ; PROCTOR AND GAMBLE CO

Inventor(s): (std): MIRO AMENOS JORDI ; MARTINEZ RODRIQUEZ ELISABET ; RODRIQUEZ ELISABET MARTINEZ ; AMENOS JORDI MIRO ; AMENOSS JORTI MIRO ; RODERRIGURSS ELIZABETH MARTINE ; AMENOS JORDI M ; MARTINES RODRIKES EHLISABET ; MIRO AMENOS KHORDI

Inventor(s): AMENOS JORDI ; JORTI MIRO AMENOSS ; ELIZABETH MARTINESS RODERRIGURSS ; ELISABET MARTINEZ RODRIQUEZ ; JORDI MIRO AMENOS

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; GOUDREAU GAGE DUBUC; WILSON LUE LLP; MOTOMIYA TERUHISA; UBUKATA KAZUO; KATO NOBUAKI; TAKAHASHI SEIICHIRO; OCHI TAKAO; USUI SHINICHI; MATSUI TAKAO; OKABE MASAO; YOSHIZAWA HIROSHI; OKABE YUZURU; PILLSBURY WINTHROP SHAW PITTMAN LLP

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

169) Family number: 51299582 (WO11028233A2)

Title: SYSTEMS AND METHODS FOR SUSTAINABLE ECONOMIC DEVELOPMENT THROUGH INTEGRATED FULL SPECTRUM PRODUCTION OR RENEWABLE MATERIAL RESOURCES USING SOLAR THERMAL

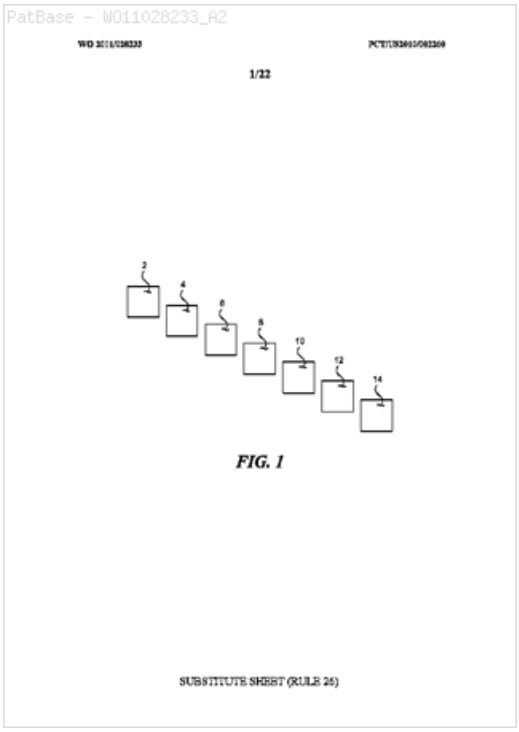
Abstract: In one embodiment of the present invention, a system for providing a renewable source of material resources is provided comprising: a first source of renewable energy; first stream of materials from a first materials source; an electrolyzer coupled to the first source of renewable energy and the first stream of materials, wherein the electrolyzer is configured to produce a first material resource by electrolysis; a processor for further processing or use or the material resource to produce a second material resource, wherein the processor comprises a solar collector and where the solar collector is configured to provide heat to the first materials resource for disassociation; and a material resource storage coupled to the electrolyzer for receiving the material resource from the electrolyzer or providing the material resource to the processor for further processing or use.

Classifications:

International (IPC 8-9): B05D1/12 B09B3/00 B32B1/02 B32B3/10 B32B37/00 C01B31/04 C25B1/00 C25B1/02 C25B1/04 C25B13/02 C25B15/00 C25B3/00 C25B9/00 C25B9/06 E21B43/22 E21B43/25 E21B43/34 F01B11/00 F01B23/10 F01N5/02 F02G5/04 F03D9/00 F03G F03G6/00 F03G7/00 F03G7/04 F03G7/05 F03G7/08 F17C11/00 F22B33/18 F24D11/00 F24H8/00 F24J2/00 F24J2/07 F24J2/12 F24J2/42 F24J3/08 F28D7/10 (Advanced/Invention);
F03G (Subclass/Invention)

CPC: C25B9/00 C02F2001/46171 C25B9/08 C25B11/02 C25B15/02 C25B15/08 C25B1/12 C04B35/536 F02B43/08 Y02T10/32 Y02B10/20 C01B3/22 C01B3/34 C01B32/225 C01B2203/0216 C01B2203/0283 C01B2203/043 C01B2203/061 C01B2203/1241 C01B2203/84 C02F1/46104 C02F2303/10 C10L3/108 C25B1/00 C25B1/02 C25B1/04 C25B3/00 C25B9/06 C25B11/03 C25B13/02 C25B15/00 E21C50/00 F01N5/02 F02G5/04 F03B13/1885 F03G7/05 F24D11/005 F24D2200/26 F24D2200/29 F24D2200/30 F24S10/40 F24S20/20 F24S23/30 F24S23/71 F28D7/103 H01M8/0656 H01M8/186 Y02B10/22 Y02B30/52 Y02E10/34 Y02E10/38 Y02E10/41 Y02E10/44 Y02E10/46 Y02E20/14 Y02E60/366 Y02E60/528 Y02E70/10 Y02E70/20 Y02P20/124 Y02P20/129 Y02P20/133 Y02P20/134 Y02P70/56 Y02P80/24 Y02T10/16 Y02T10/166 Y02W10/30 Y02W10/33 Y02W10/37 Y10T137/0391

European: C25B1/00 C25B1/02 C25B13/02 C25B9/06 F24J2/07 R24J2/12 R28D7/10E Y02B10/20 Y02E10/34 Y02E10/41



Family:

Publication number	Publication date	Application number	Application date
AU2010289904 AA	20110310	AU20100289904	20100816
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CA2770510 AA	20110310	CA20102770510	20100816
EP2470787 A2	20120704	EP20100814156	20100816
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Priority:

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Probable Assignee: MCALISTER TECHNOLOGIES LLC

Assignee(s): (std): MCALISTER ROY E ; MCALISTER TECHNOLOGIES LLC

Inventor(s): (std): MCALISTER ROY E

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; OYEN WIGGS GREEN AND MUTALA LLP; BEATTIE ALEX THOMAS STEWART; REINHOLD COHN AND PARTNERS; BETCHER SUSAN D ET AL; ARNETT STEPHEN E ET AL; ANCHELL SCOTT J ET AL

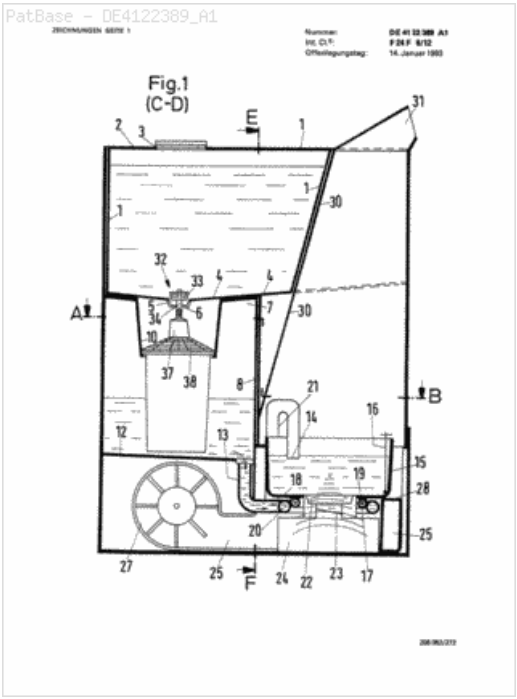
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170) Family number: 10386582 (DE4122389A1)

Title: Ultrasonic humidification appliance for household use with water supply unit - provides water in predetermined vol. or in dish and uses ultrasonic oscillator to produce vapour from water drops

Abstract: The profiled connector for a partition wall comprises two parallel profiled cladding members, and a profiled connecting one between them. The former have locking devices in two planes at their inside surfaces towards each other. The latter is of H-section, and has mating locking devices on all its free length wise edges, working with those of the cladding members. The cladding member locking devices can consist of pairs of spring clamping jaws, in which wedge-shaped thickened portions on the connecting member fit. The connector can be of PET. ADVANTAGE - Covers gap between wall and floor or ceiling.

Classifications:
International (IPC 8-9): B05B17/06 F24F6/12 (Advanced/Invention); B05B17/04 F24F6/12 (Core/Invention)
International (IPC 1-7): F24F6/12
CPC: B05B17/0615 F24F6/12
European: B05B17/06B1 F24F6/12



Family:

Publication number	Publication date	Application number	Application date
DE4122389 A1	19930114	DE19914122389	19910705

Priority:
DE19914122389 19910705

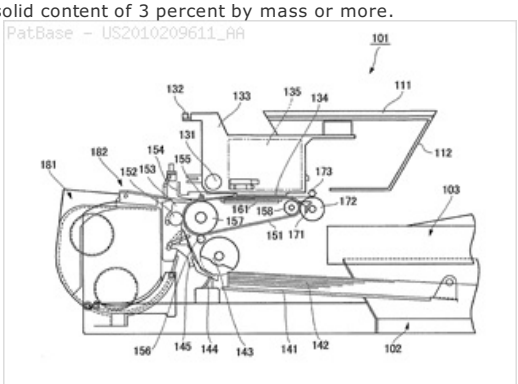
Probable Assignee: BRITA WATER FILTER SYST LTD
Assignee(s): (std): BRITA WATER FILTER SYST LTD
Assignee(s): BRITA LTD MISSISSAUGA ONTARIO CA
Inventor(s): (std): FEENEY BRIAN ; BELZ ROLF
Inventor(s): BELZ ROLF 6209 HOHENSTEIN DE ; FEENEY BRIAN MISSISSAUGA ONTARIO CA

171) Family number: 43762587 (US2010209611A)

Title: INKJET RECORDING METHOD, INKJET RECORDING MEDIUM, AND AQUEOUS INK

Abstract: An inkjet recording method including printing an image on a recording medium using an aqueous ink, wherein the recording medium includes a support containing a cellulose pulp, and a coat layer containing a pigment and a binder, and optionally containing a cationic additive in an amount of 0.1 percent or less in the total amount of the coat layer, which is formed in one or more layers on at least one surface of the support, wherein the recording medium has an outermost layer of the coat layer having a gloss at an angle of 60 degrees in accordance with JIS-ZS-8741 of 13 or less, and a centerline average roughness Ra of 0.2 micro m to 2.5 micro m at a cut-off value of 0.8 and the aqueous ink contains coloring particles, a resin emulsion, water, and a wetting agent, the aqueous ink has a solid content of 3 percent by mass or more.

Classifications:
International (IPC 8-9): B05D5/00 B41J2/01 B41M5/00 B41M5/50 B41M5/52 C08K5/053 C09D11/00 C09D11/322 C09D11/326 C09D11/328 C09D11/38 G01D11/00 (Advanced/Invention); B05D5/00 B41J2/01 B41M5/00 B41M5/50 C08K5/00 C09D11/00 (Core/Invention)
International (IPC 1-7): B41J2/01 B41M5/00 B41M5/50 B41M5/52
CPC: B41J2/1642 B41J2/1606 B41J2/162 B41J2/1623 B41J2/1634 B41J2/1646 B41M5/0023 B41M5/502 B41M5/508 B41M5/52 B41M5/5218 B41M5/5227 B41M5/5236 B41M5/5245 B41M5/5254 C09D11/322
European: B41J2/16C B41J2/16G B41J2/16M1 B41J2/16M5L B41J2/16M8C B41J2/16M8T B41M5/00F B41M5/50B B41M5/50B6 B41M5/52 C09D11/322 L41M5/52C L41M5/52D L41M5/52G L41M5/52H L41M5/52K
US: 347/100 347/101 347/105 427/256 427/256P 428/32.11 428/32.110S 524/386 524/386S



Family:

Publication number	Publication date	Application number	Application date

CN101918221 A	20101215	CN200980101230	20090317
CN101918221 B	20140910	CN200980101230	20090317
DE602009012243 D1	20130307	DE200960012243T	20090317
EP2200836 A1	20100630	EP20090723138	20090317
EP2200836 A4	20110622	EP20090723138	20090317
EP2200836 B1	20121226	EP20090723138	20090317
IN00358KN2010 A	20100507	IN2010KN00358	20100129
JP2009220529 A2	20091001	JP20080070309	20080318
JP5299748 B2	20130925	JP20080070309	20080318
US2010209611 AA	20100819	US20090670941	20090317
US8322839 BB	20121204	US20090670941	20090317
VN14327 A1	20150825	VN20100000568	20090317
WO09116678 A1	20090924	WO2009JP55730	20090317

Priority:

JP20080070309 20080318 EP20090723138 20090317 WO2009JP55730 20090317

Probable Assignee: RICOH CO LTD

Assignee(s): (std): KIYOFUMI NAGAI ; NAGAI KIYOFUMI ; OHSHIMA TOHRU ; RICOH CO LTD ; RICOH KK

Assignee(s): RICOH COMPANY LTD

Inventor(s): (std): OSHIMA SUSUMU ; TOHRU OHSHIMA ; KIYOFUMI NAGAI ; OHSHIMA TOHRU ; NAGAI KIYOFUMI

Agent(s): MEISSNER BOLTE AND PARTNER GBR; BARZ PETER; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT LLP; HIROTA KOICHI

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

172) Family number: 42748590 (GB2466631A)

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Title: A spray device for atomising fluids having at least three nozzles with a restriction

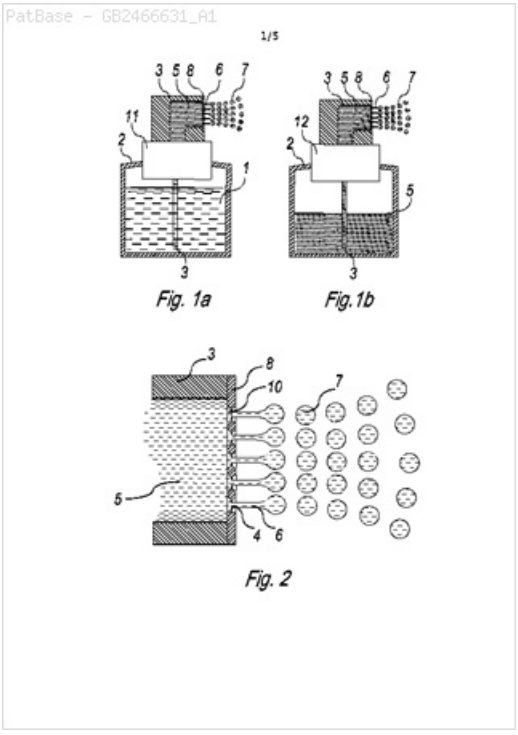
Abstract: A spray device suitable for spraying a fragrance, medical or personal care product, wherein the liquid is forced by the action of pressure from a vessel into a spray head having at least three nozzles, the nozzles each having a restriction 4 in the flow path which at it narrowest has cross-sectional area of between 40 micrometres2 (i.e. square micrometres) and 2000 square micrometres. Within 200 micrometres (micrometres / microns) from the nozzle constriction / throat 4, any channel 10 leading to or from the nozzles becomes larger than 80 square micrometres. The emitted jets may converge so as to collide, or may diverge. The nozzles may be created by laser on a plate 8 having thickness of between 10 and 2000 micrometres, thereby forming an atomising element / perforated membrane 8. The channel 10 leading to the restriction 4 may be dome shaped (convergent and tapering) terminating at the nozzle. The passage may alternatively assume an hourglass (Venturi) profile.

Classifications:

International (IPC 8-9): B05B1/14 (Advanced/Invention)

CPC: B05B1/02 B05B1/14 B05B1/26 B05B11/00 B05B17/0607

European: B05B1/02 B05B1/14 B05B1/26 L05B11/00 L05B17/06B



Family:

Publication number	Publication date	Application number	Application date
GB200819264 A0	20081126	GB20080019264	20081021
GB2466631 A1	20100707	GB20080019264	20081021

Priority:

GB20080019264 20081021

Probable Assignee: DURRANT PHILIP A

Assignee(s): (std): DURRANT PHILIP A ; DURRANT PHILIP ALAN ; LUGINBUHL PHILLIPPE

Assignee(s): PHILIP ALAN DURRANT ; PHILLIPPE LUGINBUHL

Inventor(s): (std): DURRANT PHILIP ALAN ; LUGINBUHL PHILLIPPE

Inventor(s): PHILLIPPE LUGINBUHL ; PHILIP ALAN DURRANT

173) Family number: 62404599 (WO17149165A1)

Title: A MONOLITHIC INTEGRATED MESH DEVICE FOR FLUID DISPENSERS AND METHOD OF MAKING SAME

Abstract: The invention provides a monolithic integrated mesh device for atomization or pumping of a fluid or liquid comprising a plurality of apertures and a piezoelectric material. The piezoelectric material is bonded to the mesh device at an atomic scale. In one embodiment the monolithic micro-fabricated device of the invention includes piezoelectric material that eliminates the need for expensive assembly process and improves reliability. This also has advantage of requiring lower operating voltage and less complicated circuitry.

Classifications:

International (IPC 8-9): A61M11/00 A61M15/00 B05B17/06 (Advanced/Invention)

CPC: B05B17/0646 A61M11/005 B05B17/0661

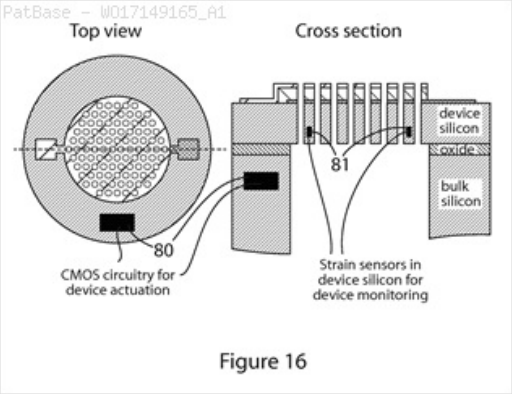


Figure 16

Family:

Publication number	Publication date	Application number	Application date
EP3423194 A1	20190109	EP20170713900	20170306
GB201603823 A0	20160420	GB20160003823	20160304
WO17149165 A1	20170908	WO2017EP55222	20170306

Priority:

GB20160003823 20160304 WO2017EP55222 20170306

Probable Assignee: UNIV COLLEGE CORK NAT UNIV IE

Assignee(s): (std): UNIV COLLEGE CORK NAT UNIV IE ; UNIV COLLEGE CORK NAT UNIV OF IRELAND CORK ; UNIV COLLEGE CORK NATIONAL UNIV OF IRELAND CORK

Assignee(s): COLLEGE CORK NATIONAL OF IRELAND CORK UNIV ; COLLEGE CORK NATIONAL OF IRELAND UNIV

Inventor(s): (std): OLSZEWSKI ZBIGNIEW ; JACKSON NATHAN ; MATHEWSON ALAN

Agent(s): LUCEY MICHAEL

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

174) Family number: 55050601 (US2013284311A)

Title: APPARATUS AND METHODS FOR FILLING A DRUG ELUTING MEDICAL DEVICE VIA CAPILLARY ACTION

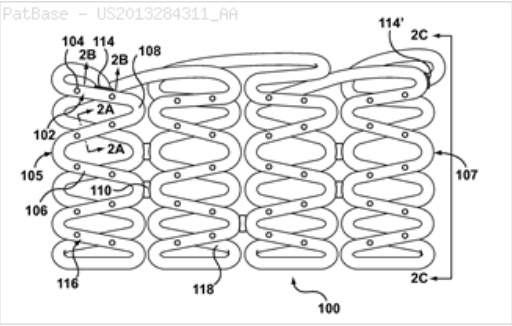
Abstract: Methods and apparatus are disclosed for filling a therapeutic substance or drug within a hollow wire that forms a stent. The stent is placed within a chamber housing a fluid drug formulation. During filling, the chamber is maintained at or near the vapor-liquid equilibrium of the solvent of the fluid drug formulation. To fill the stent, a portion of the stent is placed into contact with the fluid drug formulation until a lumenal space defined by the hollow wire is filled with the fluid drug formulation via capillary action. After filling is complete, the stent is retracted such that the stent is no longer in contact with the fluid drug formulation. The solvent vapor pressure within the chamber is reduced to evaporate a solvent of the fluid drug formulation. A wicking means may control transfer of the fluid drug formulation into the stent.

Classifications:

International (IPC 8-9): A61F2/82 A61F2/86 A61F2/915 A61L31/16 A61M31/00 B05B13/06 B65B3/00 B65B3/04 (Advanced/Invention)

CPC: A61F2002/91541 A61F2002/91575 A61F2230/0054 A61F2240/001 A61F2250/0035 A61F2250/0068 A61L31/16 A61L2300/416 A61F2/82 B05B13/06 A61F2/915 A61F2/86 A61L2300/222 A61L2300/42 A61M31/002 A61M2207/10 A61M2210/12

US: 1/1 118/317 141/18



Family:

Publication number	Publication date	Application number	Application date
CN104271081 A	20150107	CN201380021756	20130215
CN104271081 B	20160824	CN201380021756	20130215
CN106038012 A	20161026	CN201610567436	20130215

CN106038012 B	20180202	CN201610567436	20130215
DE602013006742 D1	20160602	DE201360006742T	20130215
DE602013038755 D1	20180705	DE201360038755T	20130215
EP2841025 A1	20150304	EP20130710119	20130215
EP2841025 B1	20160420	EP20130710119	20130215
EP3117803 A1	20170118	EP20160165831	20130215
EP3117803 B1	20180606	EP20160165831	20130215
JP2015519930 T2	20150716	JP20150508939T	20130215
JP6250032 B2	20171220	JP20150508939T	20130215
US2013284311 AA	20131031	US20120457418	20120426
US2016120666 AA	20160505	US20150926590	20151029
US9204982 BB	20151208	US20120457418	20120426
US9867722 BB	20180116	US20150926590	20151029
WO13162676 A1	20131031	WO2013US26265	20130215

Priority:

US20120457418 20120426 CN201380021756 20130215 EP20130710119 20130215
WO2013US26265 20130215 EP20160165831 20130215 US20150926590 20151029

Probable Assignee: MEDTRONIC INC

Assignee(s): (std): GLUCKLICH NATE ; KUMAR RAJEN ; MEDTRONIC INC ; MEDTRONIC VASCULAR INC ; TRAINA JOSE ; MITCHELL JAMES ; PETERSON JUSTIN ; SCHLICHTING ABBY ; TRAINA JOE

Assignee(s): MEDTRONIC VASCULAR INC SANTA ROSA

Inventor(s): (std): MITCHELL JAMES ; TRAINA JOE ; GLUCKLICH NATE ; SCHLICHTING ABBY ; PETERSON JUSTIN ; KUMAR RAJEN ; TRAINA JOSE ; GLUCKLICH NATHANAEL ; TRAINA JOSEPH

Inventor(s): KUMAR RAJEN SANTA ROSA ; GLUCKLICH NATE SANTA ROSA ; SCHLICHTING ABBY SANTA ROSA ; MITCHELL JAMES SANTA ROSA ; TRAINA JOE SANTA ROSA ; PETERSON JUSTIN SANTA ROSA

Agent(s): ZIMMERMANN AND PARTNER PATENTANWAELTE MBB; ZIMMERMANN AND PARTNER; ZIMMERMANN AND PARTNER PATENTANWAELTE MBB; INO SARI; KURASAWA ICHIRO; MATSUSHITA MITSURU; DESHIMARU TAKESHI; KUMAKURA YOSHIO; SHELDON ANTHONY A

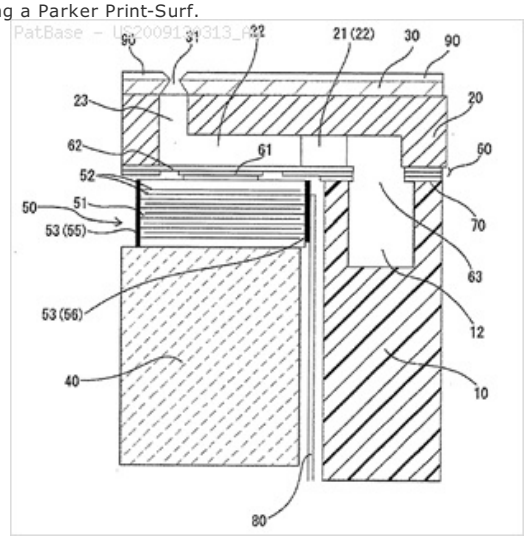
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175) Family number: 40749602 (US2009130313A)

Title: INKJET MEDIA, RECORDING METHOD, RECORDING APPARATUS, INK-MEDIA SET, AND INK RECORDED MATTER

Abstract: To provide an ideal inkjet recording method capable of full-color printing and of inexpensively providing prints that have a texture similar to those of commercial prints and that offer excellent print quality, image density, image fidelity and smear resistance, by combining a specific recording media and a specific pigment-based inkjet ink. The inkjet recording method uses an ink containing particulate coloring material for printing on a media that includes a substrate composed primarily of cellulose pulp and one or more coated layers formed on at least one surface of the substrate, wherein the media has an air permeability of 0.1 ml/min to 30 ml/min as measured using a Parker Print-Surf.

Classifications:
International (IPC 8-9): B05D1/02 B41J2/01 B41J2/04 B41J2/045 B41J2/055 B41M5/00 B41M5/41 B41M5/50 B41M5/52 C09D11/00 C09D11/322 C09D11/326 C09D11/38 (Advanced/Invention); B41J2/01 B41J2/045 B41J2/055 B41M5/52 (Advanced/Non-invention); B05D1/02 B41J2/01 B41J2/04 B41J2/045 B41J2/055 B41M5/00 B41M5/40 B41M5/50 C09D11/00 (Core/Invention)
CPC: B41M5/0023 B41M5/502 B41M5/508 B41M5/5218 C09D11/101 C09D11/38
European: B41M5/00F B41M5/50B B41M5/52C C09D11/101 C09D11/38 L41M5/50B6
US: 427/288 427/288P 428/32.1 428/32.100S



Family:

Publication number	Publication date	Application number	Application date
CN101454164 A	20090610	CN200780019407	20070418
DE602007031850 D1	20130919	DE200760031850T	20070418
EP2007587 A1	20081231	EP20070742335	20070418
EP2007587 A4	20110427	EP20070742335	20070418
EP2007587 B1	20130724	EP20070742335	20070418
JP2008137369 A2	20080619	JP20070108877	20070418
KR101174539 B1	20120816	KR20087028162	20070418
KR20090015064 A	20090211	KR20087028162	20070418
US2009130313 AA	20090521	US20070297524	20070418
WO07119888 A1	20071025	WO2007JP58900	20070418

Priority:

JP20060114709 20060418 JP20060303588 20061109 EP20070742335 20070418

JP20070108877 20070418 WO2007JP58900 20070418

Probable Assignee: RICOH CO LTD

Assignee(s): (std): MOROHOSHI NAOYA ; NAGAI KIYOFUMI ; OHSHIMA TOHRU ; RICOH CO LTD ; RICOH KK

Assignee(s): RICOH COMPANY LTD ; RICOH CO

Inventor(s): (std): NAGAI KIYOFUMI ; OHSHIMA TOHRU ; MOROHOSHI NAOYA ; OSHIMA SUSUMU ; TOHRU OHSHIMA ; NAOYA MOROHOSHI ; KIYOFUMI NAGAI

Agent(s): MEISSNER BOLTE AND PARTNER GBR; BARZ PETER; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC

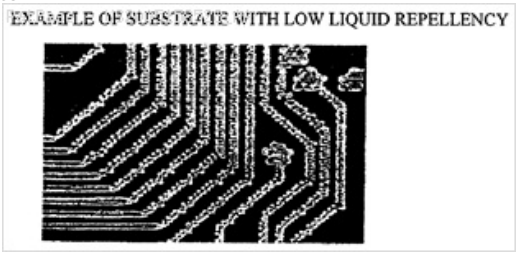
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL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

176) Family number: 32088604 (US2005158528A)

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Title: WIRING SUBSTRATE

Abstract: A substrate is provided on which wires can be formed satisfactorily using a dispersion liquid of metal microparticles without causing disconnection or short circuit. The wiring substrate comprises a substrate, an organic membrane formed on the substrate, and a metal wire formed on the organic membrane. An arithmetic mean deviation Ra of the profile of the surface of the organic membrane where the metal wire is formed is not less than 60 nm and not more than $5x10^{-2}$ D, where D is the width of the metal wire. The contact angle with respect to water on the surface of the organic membrane where the metal wire is formed is not less than 110 degrees.



Classifications:
International (IPC 8-9): B05D3/02 B05D5/12 B28B19/00 B32B1/00 B32B3/00 B32B9/00 C08J7/12 C09K3/18 C23C26/00 H05K1/02 H05K1/09 H05K3/10 H05K3/12 H05K3/38 (Advanced/Invention); H05K3/38 (Advanced/Non-invention); B05D3/02 B28B19/00 B32B1/00 B32B3/00 B32B9/00 C08J7/00 C09K3/18 C23C26/00 H05K1/02 H05K1/09 H05K3/10 H05K3/12 H05K3/38 (Core/Invention); H05K3/38 (Core/Non-invention)
International (IPC 1-7): B32B1/00 B32B9/00 C08J7/12 C09K3/18 H05K1/02 H05K1/09 H05K3/10 H05K3/38
CPC: H05K3/1208 H05K3/125 H05K3/386 H05K2201/015 H05K2201/0209 H05K2203/013 H05K2203/1173 Y10T428/24917
European: H05K3/12A T05K201/01B3 T05K201/02A1A T05K203/01A6 T05K203/11N T05K3/12C2 T05K3/38D
US: 427/123 427/307 427/372.2 427/372.200S 427/404 427/404S 427/96.1 427/96.100P 427/98.4 427/98.5 427/98.8 427/99.2 428/209 428/209P 428/209S

Family:

Publication number	Publication date	Application number	Application date
JP2005191330 A2	20050714	JP20030431803	20031226
JP4467300 B2	20100526	JP20030431803	20031226
US2005158528 AA	20050721	US20040019984	20041223
US2007154626 AA	20070705	US20070707091	20070216
US8003160 BB	20110823	US20070707091	20070216

Priority:

JP20030431803 20031226 US20040019984 20041223 US20070707091 20070216

Probable Assignee: RICOH CO LTD

Assignee(s): (std): RICOH PRINTING SYS LTD ; RICOH PRINTING SYSTEMS LTD ; SASAKI HIROSHI ; SHIMIZU KAZUO ; HITACHI LTD ; KUROSAWA MAKOTO

Assignee(s): RICOH CO LTD

Inventor(s): (std): SASAKI HIROSHI ; KUROSAWA MAKOTO ; SHIMIZU KAZUO

Agent(s): ANTONELLI TERRY STOUT AND KRAUS LLP

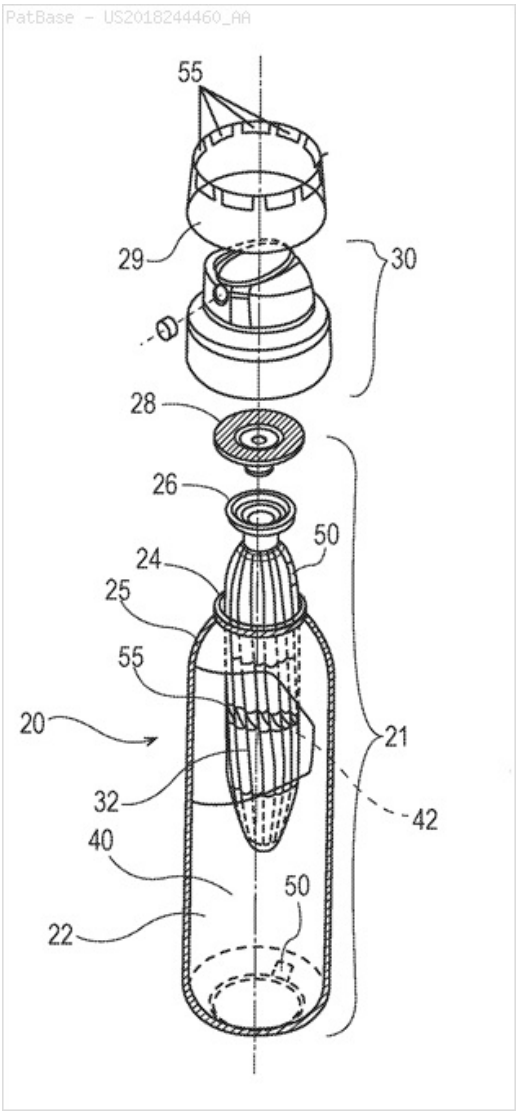
177) Family number: 70935604 (US2018244460A)

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Title: AEROSOL DISPENSER HAVING A SAFETY VALVE

Abstract: A method of warming food dispensable from an aerosol dispenser. The aerosol dispenser is made from materials which can go into a single recycling stream having a single class of materials, as defined by the Society of the Plastics Industry, and particularly may exclusively comprise Class 1 materials suitable for eating in a microwave oven. Consumer products, such as food, contained in the aerosol dispenser may be heated in a microwave oven prior to dispensing. Upon dispensing, food retains residual heat, and is suitable for eating or further cooking. Other heated products in the aerosol dispenser may be comfortably applied to the skin, used as air freshener, used for cleaning, etc. The aerosol dispenser may have indicia indicating the aerosol dispenser is suitable for microwave heating. The aerosol dispenser can have indicia indicating the aerosol dispenser is suitable for heating in a microwave oven. The indicia may be thermochromic, indiciating when a desired temperature has been reached. The aerosol dispenser can have a safety valve, to safely relieve product and/or propellant pressure upon overpressurization in a microwave oven. The safety valve may be single use or reusable.

Classifications:
International (IPC 8-9): B05B15/14 B65D83/38 B65D83/62 B65D83/70 B65D83/72 (Advanced/Invention); B65D83/62 (Advanced/Non-invention)
CPC: B05B15/14 B65D83/62 B65D83/70 Y02W30/807 B65D83/38 B65D83/72
US: 1/1 222/23



Family:

Publication number	Publication date	Application number	Application date
CN110234580 A	20190913	CN201880009101	20180216
US2018244460 AA	20180830	US20170444354	20170228
WO18160368 A1	20180907	WO2018US18464	20180216

Priority:

US20170444354 20170228 WO2018US18464 20180216

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std)**:** PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO

Inventor(s): (std)**:** ZEIK DOUGLAS BRUCE ; SMITH SCOTT EDWARD ; SMITH SCOTT ; ZEIK DOUGLAS

Agent(s): KREBS JAY A

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

178) Family number: 42965605 (US2009047431A)

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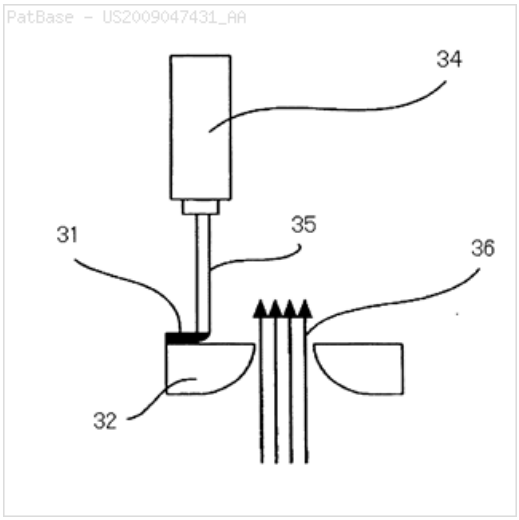
Title: INKJET INK, AND INK CARTRIDGE, INKJET RECORDING METHOD, INKJET RECORDING APPARATUS AND INK RECORD USING THE SAME

Abstract: The present invention provides an inkjet ink containing at least a colorant, water, a water insoluble resin, a fluorine surfactant, and a polyether-modified silicone oil, wherein the polyether-modified silicone oil has a hydrophobic value of 0.40 to 1.5, and the hydrophobic value is expressed by Equation 1: Hydrophobic value=A/B Equation 1 where "A" represents an integration value of a peak area from 0 ppm to 0.3 ppm in a 1H-NMR spectrum of the polyether-modified silicone oil using tetramethylsilane as a reference substance; and "B" represents an integration value of a peak area from 3.5 ppm to 4.0 ppm in the 1H-NMR spectrum.

Classifications:

International (IPC 8-9): B05C11/00 B05D1/00 B41J2/01 B41J2/135 B41J2/14 B41J2/16 B41M5/00 C08K13/02 C08K5/00 C08K5/06 C08K5/41 C09D11/00 C09D11/10 C09D11/30 C09D11/322 C09D11/326 C09D11/328 C09D11/38 (Advanced/Invention); B05C11/00 B05D1/00 B41J2/01 B41J2/135 B41J2/14 B41M5/00 C08K5/00 C09D11/00 C09D11/10 (Core/Invention)

CPC: C09D11/101
European: C09D11/101
US: 106/31.59 118/46 118/46S 347/100 427/256 427/256P 427/466 523/160 524/156 524/156S 524/265 524/366 524/367 524/367S 524/376 524/376S 524/380 524/81 524/81S



Family:

Publication number	Publication date	Application number	Application date
CN101368016 A	20090218	CN200810129862	20080814
CN101368016 B	20140618	CN200810129862	20080814
DE602008025881 D1	20130905	DE200860025881T	20080811
EP2028242 A1	20090225	EP20080252661	20080811
EP2028242 B1	20130710	EP20080252661	20080811
JP2009062519 A2	20090326	JP20080196734	20080730
US2009047431 AA	20090219	US20080190946	20080813
US2013023614 AA	20130124	US20120616058	20120914
US8317913 BB	20121127	US20080190946	20080813
US8680175 BB	20140325	US20120616058	20120914

Priority:

JP20070211470 20070814 JP20080196734 20080730 EP20080252661 20080811
US20080190946 20080813 US20120616058 20120914

Probable Assignee: RICOH CO LTD

Assignee(s): (std): FUJII ICHIROH ; HATADA SHIGEO ; MATSUYAMA AKIHIKO ; KUSAKATA SHIGERU ; RICOH CO LTD ; YOKOHAMA YUUKI ; TANIGUCHI KEISHI ; RICOH KK

Assignee(s): RICOH CO ; RICOH COMPANY LTD

Inventor(s): (std): AKIHIKO MATSUYAMA ; FUJII ICHIRO ; FUJII ICHIROH ; HATADA SHIGEO ; ICHIROH FUJII ; HIGETA SHIGERU ; MATSUYAMA AKIHIKO ; KUSAKATA SHIGERU ; TANIGUCHI KEISHI ; KEISHI TANIGUCHI ; SHIGEO HATADA ; SHIGERU KUSAKATA ; TANIGUCHI KEIJI ; YOKOHAMA YUKI ; YOKOHAMA YUUKI ; YUUKI YOKOHAMA

Agent(s): SCHWABE SANDMAIR MARX; LAMB MARTIN JOHN CARSTAIRS; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT LLP

Designated states: AL BA DE FR GB MK RS

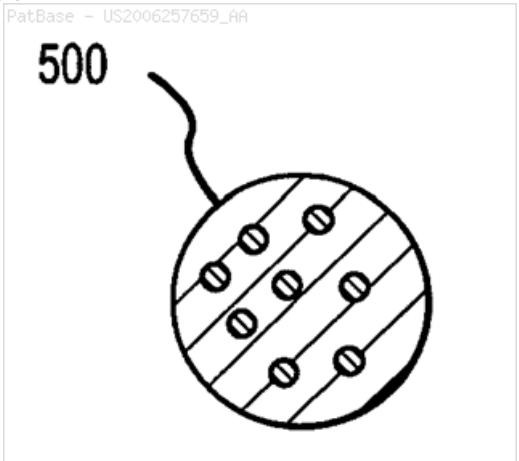
179) Family number: 12853606 (US2006257659A)

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Title: ELECTROLUMINESCENT PHOSPHOR POWDERS, METHODS FOR MAKING PHOSPHOR POWDERS AND DEVICES INCORPORATING SAME

Abstract: Electroluminescent phosphor powders and a method for making phosphor powders. The phosphor powders have a small particle size, narrow particle size distribution and are substantially spherical. The method of the invention advantageously permits the economic production of such powders. The invention also relates to improved devices, such as electroluminescent display devices, incorporating the phosphor powders.

Classifications:



International (IPC 8-9): B01J13/02 B01J19/00 B01J19/10 B01J19/24 B01J2/00 B01J2/02 B01J2/04 B01J2/16 B01J2/18 B01J21/18 B01J23/34 B01J23/40 B01J35/02 B01J35/10 B01J37/00 B05B17/06 B22F1/00 B22F1/02 B22F9/00 B22F9/02 B22F9/06 B22F9/12 B22F9/24 B22F9/26 B22F9/30 B24B37/04 B29B9/00 B29B9/10 B32B1/00 B32B5/16 B41M3/14 C01B13/18 C01B17/20 C01G15/00 C01G23/00 C01G25/00 C04B35/111 C04B35/119 C04B35/624 C09D5/22 C09G1/02 C09K11/02 C09K11/08 C09K11/54 C09K11/56 C09K11/58 C09K11/59 C09K11/62 C09K11/63 C09K11/64 C09K11/66 C09K11/67 C09K11/68 C09K11/77 C09K11/78 C09K11/79 C09K11/80 C09K3/14 C22C1/10 C22C29/00 C22C29/12 C22C32/00 G21K4/00 H01B1/16 H01C17/065 H01G4/008 H01J1/62 H01J1/63 H01J17/04 H01J17/49 H01J29/08 H01J29/18 H01J29/20 H01J31/12 H01L21/321 H01L23/498 H01L33/50 H01M4/86 H01M4/90 H01M4/94 H01M4/96 H05B33/14 H05B33/20 H05K1/09 (Advanced/Invention);
B01J2/02 B01J23/00 B01J31/06 B01J35/08 B01J37/34 H01L21/321 H01M12/08 H01M4/92 H01M8/10 H05K1/09 (Advanced/Non-invention);
C04B35/111 C04B35/622 C09K3/14 (Core/Invention)
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US: 102/201 102/513 106/31.15 106/31.150S 106/31.32 106/31.320S 106/31.64 106/31.640S 252/301.36 252/301.360P 252/301.360S 252/301.40F 252/301.40FS 252/301.40H 252/301.40HS 252/301.40P 252/301.40PS 252/301.40R 252/301.40RS 252/301.40S 252/301.40SS 252/301.4F 252/301.4H 252/301.4P 252/301.4R 252/301.4S 252/301.5 252/301.500S 252/301.60F 252/301.60FS 252/301.60P 252/301.60PS 252/301.60R 252/301.60RS 252/301.60S 252/301.60SS 252/301.6F 252/301.6P 252/301.6R 252/301.6S 257/E21.304 257/E21.304S 257/E23.075 257/E23.075S 264/12 264/12P 264/13 264/14 264/5 283/901 283/92 427/157 427/7 428/402 428/402P 428/403 428/403S 428/690 429/42 429/44 429/482 429/482P 429/524 429/524S 429/530 429/530S 429/532 429/532S 502/182 502/182S 502/185 502/185S 75/332 75/332P 75/336 75/345 75/351 75/351P 75/367 75/370 75/370S

Family:

Publication number	Publication date	Application number	Application date
AU199864383 A1	19980909	AU19980064383	19980224
AU199929734 A1	19990906	AU19990029734	19990224
CA2256856 AA	19990824	CA19982256856	19981218
DE69819740 D1	20031218	DE19986019740	19980224
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DE69834559 D1	20060622	DE19986034559T	19980224
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EP0937764 A1	19990825	EP19990100058	19990105
JP11335658 A2	19991207	JP19990041823	19990219
US2006257659 AA	20061116	US20060410700	20060424
US2007138438 AA	20070621	US20070677268	20070221
US2007204724 AA	20070906	US20060555139	20061031
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Priority:

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US20070676459 20070219

Probable Assignee: SICPA HOLDING SA

Assignee(s): (std): CABOT CORP ; CARUSO JAMES ; CHANDLER CLIVE D ; SKAMSER DANIEL J ; KODAS TOIVO T ; POWELL QUINT H ; HAMPDEN SMITH MARK J ; NANOCHEM RES LLC ; WASHINGTON MILLS ELECTRO MINER ; SUPERIOR MICROPOWDERS LLC ALBU ; SUPERIOR MICROPOWDERS LLC

Assignee(s): WASHINGTON MILLS ELECTRO MINERALS CORP ; SUPERIOR MICROPOWDERS LLC ALBUQUERQUE ;

SEIDER ROBERT J ; SICPA HOLDING SA ; CABOT CORP BOSTON ; GEISE MATTHEW R ; NANOCHEM RESEARCH LLC

Inventor(s): (std): ATANASSOV PLAMEN ; ATANASSOVA PAOLINA ; CARUSO JAMES ; CHANDLER CLIVE D ; BHATIA RIMPLE ; GEISE MATTHEW R ; HAMPDEN SMITH MARK J ; HAMPDEN SMITH J ; CHANDLER D ; SEIDER ROBERT J ; KUNZE KLAUS ; KODAS TOIVO T ; POWELL QUINT H ; SKAMSER DANIEL J ; SKAMSER J ; POWELL H ; KODAS T ; NAPOLITANO PAUL ; DERICOTTE DAVID E

Inventor(s): HAMPDEN SMITH MARK ; KODAS TOIVO ; SKAMSER DANIEL ; POWELL QUINT ; TOIVO T KODAS ; MARK J HAMPDEN SMITH ; QUINT H POWELL ; JAMES CARUSO ; DANIEL J SKAMSER ; CLIVE D CHANDLER ; CHANDLER CLIVE

Agent(s): GOWLING LAFLEUR HENDERSON LLP; CABOT CORP; MARSH FISCHMANN AND BREYFOGLE LLP

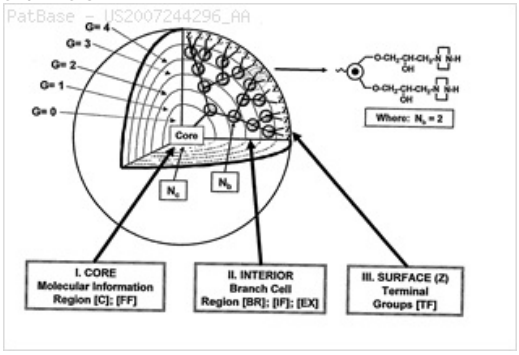
Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

180) Family number: 33086606 (US2007244296A)

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Title: DENDRITIC POLYMERS WITH ENHANCED AMPLIFICATION AND INTERIOR FUNCTIONALITY

Abstract: Poly(ester-acrylate) and poly(ester/epoxide) dendrimers. These materials can be synthesized by utilizing the so-called "sterically induced stoichiometric" principles. The preparation of the dendrimers is carried out by reacting precursor amino/polyamino-functional core materials with various branch cell reagents. The branch cell reagents are dimensionally large, relative to the amino/polyamino-initiator core and when reacted, produce generation=1 dendrimers directly in one step. There is also a method by which the dendrimers can be stabilized and that method is the reaction of the dendrimers with surface reactive molecules to pacify the reactive groups on the dendrimers.



Classifications:
International (IPC 8-9): A61K31/785 A61K47/48 C08G73/06 C08G83/00 A01N25/10 A61K A61K31/405 A61K31/74 A61K45/00 A61K47/30 A61K47/32 A61K47/34 A61K48/00 A61K49/00 A61K8/72 A61K9/14 A61K9/48 A61L2/16 A61L27/34 A61L29/08 A61L31/10 A61P29/00 A61P43/00 B05D3/12 C07C217/28 C07C217/30 C07C229/12 C07C237/10 C07C309/10 C07C309/68 C07C323/52 C07F7/10 C07F9/38 C08F20/02 C08F279/00 C08F279/04 C08G C08G59/14 C08G59/32 C08G59/50 C08G61/00 C08G61/12 C08G63/48 C08G65/329 C08G69/44 C08G85/00 C08J C08J3/00 C08J5/00 C08J9/32 C08J9/40 C08K C08K3/04 C08K3/22 C08K9/00 C08L87/00 C09B57/02 C09B67/20 C12N15/87 (Advanced/Invention);
A61K47/48 A61K48/00 A61K9/48 B82Y30/00 C08G61/00 C08G61/12 C08J5/00 (Advanced/Non-invention);
A01N25/10 A61K31/403 A61K31/74 A61K45/00 A61K47/30 A61K47/32 A61K47/34 A61K47/48 A61K48/00 A61P29/00 A61P43/00 B05D3/12 C07C217/00 C07C229/00 C07C237/00 C07C309/00 C07F7/00 C07F9/00 C08F20/00 C08F279/00 C08G59/00 C08G61/00 C08G63/00 C08G65/00 C08G73/00 C08G83/00 C08G85/00 C08J3/00 C08J5/00 C08J9/00 C08K3/00 C08K9/00 C09B57/00 C09B67/00 C12N15/87 (Core/Invention);
A61K47/48 A61K9/48 (Core/Non-invention);
A61K C08G C08J C08K (Subclass/Invention)
International (IPC 1-7): A61K48/00 C08J3/00
CPC: Y02P70/56 C08G63/46 A01N25/10 A61K8/85 A61K9/0019 A61K9/5146 A61Q15/00 A61Q17/005 H01M4/86 H01M8/10 C08J5/005 A61K47/59 A61K47/593 A61K47/595 C12N15/87 A61K48/00 A61K49/0002 B82Y5/00 B82Y10/00 C08L101/005 C09B67/0013 C08G59/1477 C08G59/32 C08G59/3227 C08G59/5026 C08G83/003
European: A01N25/10 A61K47/48K6 A61K47/48K6E A61K47/48K6F A61K49/00F A61K8/85 A61K9/00M5 A61K9/51H6D A61Q17/00F B82Y10/00 B82Y5/00 C08G59/14K4 C08G59/32 C08G59/32D C08G59/50D C08G63/46 C08G83/00D1 C08L101/00B C09B67/00B4F6 C12N15/87 K61K48/00 K61Q15/00 T01M4/86 T01M8/10
US: 424/400 424/486 424/78.03 424/78.030P 424/78.08 424/78.080S 427/240 427/240S 427/393.5 427/393.500S 435/440 435/440S 435/459 435/459S 435/470 435/470S 514/772.3 514/772.300S 524/430 524/430S 524/440 524/440S 524/496 524/496S 525/403 525/403S 525/419 525/419S 525/451 525/451S 525/452 525/452S 525/474 525/474S 525/509 525/509S 525/534 525/534S 525/535 525/535S 525/54.1 525/54.100S 525/540 525/540S 525/55 525/55S 528/423 528/423P 528/425 528/425S 528/480

Family:

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AU2005317193 AA	20060622	AU20050317193	20050420
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CN101443048 A	20090527	CN200580049281	20051221
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CN1946772 A	20070411	CN200580012562	20050420
CN1946772 B	20130102	CN200580012562	20050420
DE602005046936 D1	20150827	DE200560046936T	20050420
DK1737899 T3	20150928	DK20050851172T	20050420
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EP1877103 A4	20101103	EP20050857843	20051221
EP2325236 A1	20110525	EP20100184062	20051221
EP2385078 A1	20111109	EP20100183910	20050420
ES2547220 T3	20151002	ES20050851172T	20050420
HK1104832 A1	20151120	HK20070107005	20070629
HK1104832 A1	20080125	HK20070107005	20070629
HK1104832 A3	20080125	HK20070107005	20070629

HK1104832 B	20151120	HK20070107005	20070629
HK1116678 A1	20090102	HK20080107561	20080709
HK1116678 A3	20090102	HK20080107561	20080709
HK1163721 A1	20120914	HK20120104347	20070629
IL178715 A0	20070211	IL20060178715	20061018
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IL179510 A0	20070515	IL20060179510	20061122
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IN04277CN2006 A	20070629	IN2006CN04277	20061120
IN04302CN2006 A	20070615	IN2006CN04302	20061122
IN243888 B	20101112	IN2006CN04302	20061122
IN244064 B	20101119	IN2006CN04277	20061120
JP2007533838 T2	20071122	JP20070509679T	20050420
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JP2013231034 A2	20131114	JP20130112814	20130529
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KR20070066902 A	20070627	KR20060131202	20061220
MX2007010402 A1	20080122	MX20070010402	20051221
MXPA06012207 A1	20070213	MX2006PA12207	20050420
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NZ563128 A	20111222	NZ20050563128	20051221
TW200728406 A	20070801	TW20060138387	20061018
TW200801075 A	20080101	TW20060122332	20060621
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US2007244296 AA	20071018	US20050594776	20050420
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WO06115547 A2	20061102	WO2005US47635	20051221
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Priority:

US20040563659 20040420	US20040563659P 20040420	AU20050317193 20050420
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Probable Assignee: DENDRITIC NANOTECHNOLOGIES INC

Assignee(s): (std): TOMALIA DONALD A ; SWANSON DOUGLAS R ; HUANG BAOHUA ; PULGAM VEERA REDDY ; PULGAM VERRA REDDY ; SVENSON SONKE ; ZHURAVEL MICHAEL A ; HEINZELMANN JOSEPH R ; REYNA LORI A ; CHAUHAN ABHAY SINGH ; DEMATTEI CORDELL R ; DENDRITIC NANOTECHNOLOGIES INC

Assignee(s): DENDRITIC NANOTECHNOLOGIES INC MT PLEASANT ; DENDRITIC NANOTECHNOLOGIES IN

Inventor(s): (std): REYNA LORI A ; CHAUHAN ABHAY SINGH ; HEINZELMANN JOSEPH R ; SVENSON SONKE ; DEMATTEI CORDELL R ; PULGAM VERRA REDDY ; ZHURAVEL MICHAEL A ; DONALD A TOMALIA ; DOUGLAS R SWANSON ; VEERA REDDY PULGAM ; TOMALIA DONALD A ; SWANSON DOUGLAS R ; HUANG BAOHUA ; PULGAM VEERA REDDY ; BAOHUA HUANG ; SONKE SVENSON ; SINGH CHAUHAN ABHAY ; REDDY PULGAM VERRA ; ZHURAVEL MICHAEL ; REDDY TOMALIA DONALD A SWANSON ; DE MATTEI CORDELL R ; PULGAM VEERA R ; DEMATTEL CORDELL R ; CHAUHAN ABHAY S ; HUANG BAO HUA

Inventor(s): RENYA LORI A ; CORDELL R DEMATTEL ; PULGAM VEERA READY ; TOMALIA DONALD ; PULGAM VEERA ; CHAUHAN ABHAY ; DEMATTEI CORDELL ; HEINZELMANN JOSEPH ; REYNA LORI ; SWANSON DOUGLAS ; PULGAM VEERA REDDY MT PLEASANT ; TOMALIA DONALD A MIDLAND ; SWANSON DOUGLAS R MT PLEASANT ; HUANG BAOHUA MT PLEASANT ; TOMALIA DONALD A SWANSON DOUGLAS R HUANG BAOHUA PU ; LORI A REYNA ; ABHAY SINGH CHAUHAN ; JOSEPH R HEINZELMANN ; CORDELL R DEMATTEI ; VERRA REDDY PULGAM ; MICHAEL A ZHURAVEL

Agent(s): FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; HERBERT SMITH FREEHILLS; FPA PATENT ATTORNEYS PTY LTD; K AND L GATES; DAVIES COLLISON CAVE PTY LTD; DAVIES COLLISON CAVE; SMART AND BIGGAR; WITTMANN HERNANDEZ PATENTANWAELTE PARTNERSCHAFT MBB; BECK GREENER; DEY MICHAEL ET AL; DEY MICHAEL; LAZCANO JESUS; MARKS AND CLERK; PEARL COHEN ZEDEK LATZER BARATZ; AOKI ATSUSHI; ISHIDA TAKASHI; KOGA TETSUJI; CHU SUNG MIN; KIM YOUNG; TECHNOLOGY LAW PLLC; KAREN L

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

181) Family number: 61802606 (US2017178884A)

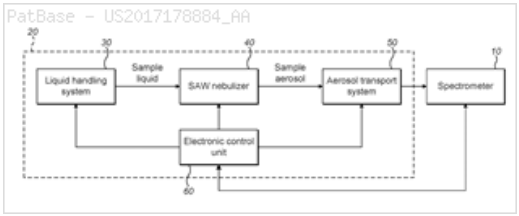
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Title: LIQUID SAMPLE INTRODUCTION SYSTEM AND METHOD, FOR ANALYTICAL PLASMA SPECTROMETER

Abstract: A liquid sample introduction system for a plasma spectrometer includes a sample container for holding a liquid sample, a surface acoustic wave (SAW) nebulizer, arranged to receive a liquid sample from the sample container, an electronic controller for supplying electrical power to the SAW nebulizer so as to produce a surface acoustic wave on a surface of the SAW nebulizer, for generating an aerosol from the supplied sample liquid, and an aerosol transport arrangement for receiving the aerosol from the SAW nebulizer and carrying it into a plasma or flame of a spectrometer. The

electronic controller is further configured to control the electrical power to the SAW nebulizer so as to permit adjustment of the aerosol parameters, and to control the aerosol transport arrangement so as to permit adjustment of the aerosol delivery into the plasma or flame of the spectrometer.

Classifications:
International (IPC 8-9): B05B17/06 G01J3/02 G01J3/443 G01N1/28 G01N21/31 G01N21/71 G01N21/73 G01N27/62 H01J49/04 (Advanced/Invention)
CPC: G01N21/714 B05B17/0607 H01J49/0445 H01J49/0454 G01J3/0267 G01J3/443 H01J49/0409 H01J49/045
US: 1/1 73/864.81



Family:

Publication number	Publication date	Application number	Application date
CN106898536 A	20170627	CN201611072392	20161129
DE102016014922 A1	20170622	DE201610014922	20161214
GB201522436 A0	20160203	GB20150022436	20151218
GB2548071 A1	20170913	GB20150022436	20151218
GB2548071 B2	20180502	GB20150022436	20151218
JP2017111139 A2	20170622	JP20160240177	20161212
JP6464132 B2	20190206	JP20160240177	20161212
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Priority:
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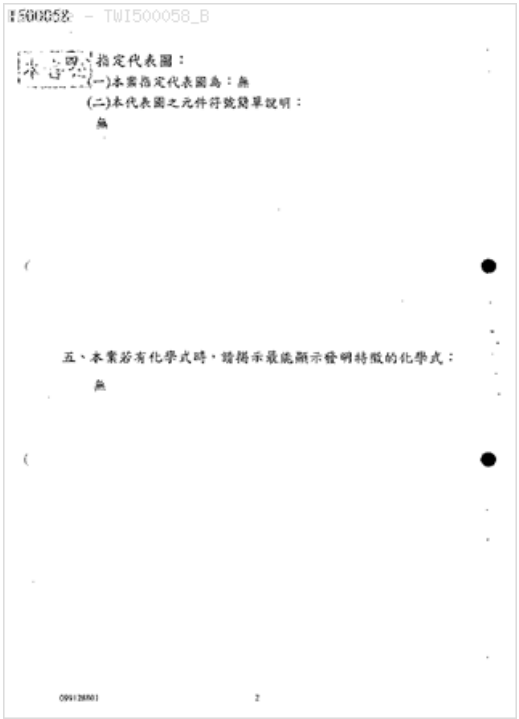
Probable Assignee: THERMO FISHER SCIENTIFIC INC
Assignee(s): (std): THERMO FISHER SCIENT BREMEN ; THERMO FISHER SCIENT BREMEN GMBH
Assignee(s): THERMO FISHER SCIENTIFIC BREMEN GMBH ; THERMO FISHER SCIENTIFIC INC
Inventor(s): (std): AYRAT MURTAZIN ; MURTAZIN AYRAT
Agent(s): NISHIJIMA TAKAKI; KURASAWA ICHIRO; MATSUSHITA MITSURU; DESHIMARU TAKESHI

182) Family number: 48389609 (US2012148917A)

Title: AQUEOUS COATING LIQUID FOR AN ELECTRODE PLATE, ELECTRODE PLATE FOR AN ELECTRICAL STORAGE DEVICE, METHOD FOR MANUFACTURING AN ELECTRODE PLATE FOR AN ELECTRICAL STORAGE DEVICE, AND ELECTRICAL STORAGE DEVICE

Abstract: A water-based coating formulation for an electrode plate of an electricity storage device, said water-based coating formulation being adapted to form a coating film layer on the electrode plate, contains at least one resin binder having a saponification degree of 40 percent or higher and selected from unmodified and modified polyvinyl alcohols and unmodified and modified ethylene-vinyl alcohol copolymers, a conductive material, and a specific polybasic acid or its acid anhydride in a water-based medium containing water as a polar solvent. Per parts by mass of the conductive material (2), the resin binder is from 0.1 to 3 parts by mass and the polybasic acid or the like is from 0.01 to 6 parts by mass. The coating formulation has a solids content of from 0.02 mass percent to 40 mass percent.

Classifications:
International (IPC 8-9): B01F17/56 B05D5/12 B32B15/04 B32B17/06 B32B18/00 B32B27/06 B32B29/00 B32B33/00 B32B9/00 B32B9/02 C01B31/02 C08K3/00 C08K3/04 C08K3/36 C08K3/38 C08K5/092 C08L1/00 C08L1/04 C08L1/08 C08L1/28 C08L101/00 C08L101/14 C08L3/04 C08L3/08 C08L5/04 C08L5/08 C09C1/44 C09C1/46 C09C1/56 C09C3/10 C09D101/28 C09D103/08 C09D105/00 C09D105/04 C09D105/08 C09D11/00 C09D17/00 C09D201/00 C09D5/00 C09D5/24 C09D7/12 C09K3/00 D21H17/00 H01B1/20 H01B1/24 H01B13/00 H01B3/30 H01B5/14 H01G11/22 H01G11/24 H01G11/26 H01G11/28 H01G11/38 H01G11/56 H01G11/68 H01G11/86 H01G13/00 H01G13/04 H01G4/008 H01G9/04 H01G9/042 H01G9/058 H01L29/00 H01M10/0525 H01M4/02 H01M4/04 H01M4/13 H01M4/139 H01M4/36 H01M4/62 H01M4/64 H01M4/66 (Advanced/Invention);
B82Y30/00 B82Y99/00 H01M10/0525 H01M4/583 (Advanced/Non-invention);
B01F17/56 H01G9/042 H01M10/0525 H01M4/04 H01M4/13 H01M4/139 H01M4/66 (Core/Non-invention)
CPC: C08L1/284 C08L1/286 C08L3/08 C08L5/04 C08L5/08 C08K3/013 C08K3/04 C08K3/36 C08K5/092 C09D5/24 C09D101/284 C09D101/286 C09D103/08 C09D105/04 C09D105/08 H01G11/26 H01G11/28 H01G11/38 H01M4/0404 H01M4/13 H01M4/139 H01M4/583 H01M4/622 H01M4/625 H01M4/667 H01M10/0525 Y02E60/13 Y02P70/54 Y10T428/2913 Y10T428/31678 Y10T428/31971 Y10T428/31975 Y10T442/20 C08K3/38 H01G11/24 H01G11/56 H01G11/68 H01M4/366 H01M4/661
European: C09D5/24 H01G11/38 H01G9/058 H01M4/04B2 H01M4/13 H01M4/139 H01M4/62B2 H01M4/66K2 T01M10/0525 T01M4/583 T01M4/62C2 Y02E60/12B Y02E60/13
US: 1/1 106/162.2 106/162.200S 106/163.01 106/163.010S 106/205.01 106/205.010S 106/206.1 106/206.100S 106/217.5 106/217.500S 106/217.7 106/217.700S 106/217.9 106/217.900P 106/476 174/110SR 252/500 252/500S 252/511 252/511S 361/305 361/305S 361/500 361/500S 427/77 427/77S 428/364 428/364S 428/426 428/426S 428/446 428/446S 428/457 428/457S 428/473 428/473S 428/532 428/532S 428/533 428/533S 429/211 429/211P 429/232 442/59 442/59S 516/129 516/203 516/914 977/734 977/734S 977/742 977/742S 977/932 977/932S



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Publication number	Publication date	Application number	Application date
CN102483976 A	20120530	CN201080038025	20100824
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CN102498175 A	20120613	CN201080038131	20100824
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EP2471869 A1	20120704	EP20100811847	20100824
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EP2472646 A1	20120704	EP20100811849	20100824
EP2472646 A4	20141126	EP20100811849	20100824
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US8945767 BB	20150203	US20100392066	20100824
US9359508 BB	20160607	US20100392034	20100824
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US9834688 BB	20171205	US20160142683	20160429
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WO11024798 A1	20110303	WO2010JP64263	20100824
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WO11024800 A1	20110303	WO2010JP64265	20100824

Priority:

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US20160142683 20160429

Probable Assignee: DAINICHISEKA COLOR AND CHEMICALS MFG CO LTD

Assignee(s): (std): DAINICHISEIKA COLOR AND CHEMICALS MFG CO ; DAINICHISEIKA COLOR AND CHEMICALS MFG CO LTD ; SANNAN TAKANORI ; IIJIMA YOSHIHIKO ; KOBAYASHI NOBUYUKI ; TSUCHIDA SHINYA ; DAINICHISEIKA COLOR CHEM

Assignee(s): DAINICHISEKA COLOR AND CHEMICALS MFG CO LTD ; DAINICHISEIKA COLOR AND CHEMICALS MFGCO LTD ; DAINICHISEIKA COLOR AND CHEM MFG CO LTD

Inventor(s): (std): SANNAN TAKANORI ; IIJIMA YOSHIHIKO ; KOBAYASHI NOBUYUKI ; TSUCHIDA SHINYA ; SHINYA TSUCHIDA ; TAKANORI SANNAN ; YOSHIHIKO IIJIMA ; NOBUYUKI KOBAYASHI ; YOSHIHIKO LIJIMA ; KOBAYASHI MASAYUKI ; YAMANAMI TAKANORI

Inventor(s): LIJIMA YOSHIHIKO ; KOBAYASHI NOBUYUK

Agent(s): HARTZ NIKOLAI; KONDO RIEKO; HAMRE SCHUMANN MUELLER AND LARSON PC

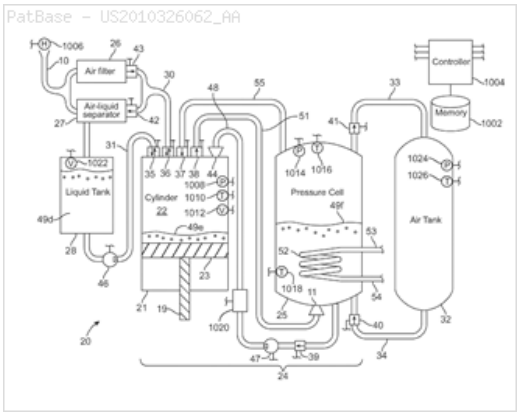
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183) Family number: 47930612 (US2010326062A)

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Title: COMPRESSED AIR ENERGY STORAGE SYSTEM UTILIZING TWO-PHASE FLOW TO FACILITATE HEAT EXCHANGE

Abstract: A compressed-air energy storage system according to embodiments of the present invention comprises a reversible mechanism to compress and expand air, one or more compressed air storage tanks, a control system, one or more heat exchangers, and, in certain embodiments of the invention, a motor-generator. The reversible air compressor-expander uses mechanical power to compress air (when it is acting as a compressor) and converts the energy stored in compressed air to mechanical power (when it is acting as an expander). In certain embodiments, the compressor-expander comprises one or more stages, each stage consisting of pressure vessel (the "pressure cell") partially filled with water or other liquid. In some embodiments, the pressure vessel communicates with one or more cylinder devices to exchange air and liquid with the cylinder chamber(s) thereof. Suitable valving allows air to enter and leave the pressure cell and cylinder device, if present, under electronic control.



Classifications:

International (IPC 8-9): B05B1/00 B05B1/02 F01B1/00 F01B15/02 F01B17/02 F01B21/02 F01B21/04 F01B23/08 F01B23/10 F01B25/02 F01B25/10 F01B29/04 F01B29/10 F01B31/00 F01B9/02 F01C1/00 F01C1/02 F01C1/16 F01C1/34 F01C13/00 F01D15/10 F01K13/02 F01K21/02 F01K21/04 F01K23/10 F01K25/00 F01K25/06 F01K25/10 F01K27/00 F01K3/02 F02C1/02 F02C1/04 F02C6/16 F02D25/00 F02G1/04 F02G1/043 F02G1/05 F03B11/00 F03C1/00 F03D11/00 F03D11/02 F03D11/04 F03D5/00 F03D9/00 F03D9/02 F03G7/00 F04B17/00 F04B17/02 F04B35/02 F04B39/00 F04B39/06 F04B39/12 F04B41/02 F04B41/04 F04B49/00 F04B49/22 F04B9/123 F04B9/127 F04D29/58 F15B1/00 F15B1/02 F15B1/027 F15B1/08 F15B1/26 F15B11/06 F15B11/08 F15B13/00 F15B13/04 F15B13/042 F15B13/044 F15B13/16 F15B15/00 F15B15/02 F15B15/20 F15B21/04 F15B21/14 F16D25/00 F16D31/02 F16L3/00 F16L53/00 F17C13/02 F17C13/04 F17C5/00 F17D1/02 F24H3/00 F24J3/08 F25B13/00 F25B27/00 F25B9/00 G05B15/02 G05D7/00 G05F3/06 H02J1/00 H02J1/10 H02J15/00 H02K7/18 H02P9/04 (Advanced/Invention); F03C1/00 F15B1/02 F28D20/00 H02J1/10 (Advanced/Non-invention)

CPC: F15B13/00 F05B2260/406 Y02E10/728 F17D1/02 F04B41/02 F15B1/02 F02G1/05 F01C13/00 F01B17/022 H02J15/006 F01K25/10 Y02E50/12 Y02T50/678 F15B15/20 F15B15/02 F15B2015/208 Y02B10/30 F15B1/265 F15B1/00 H02K7/1815 F01B15/02 F01B29/10 F05B2260/40311 Y02E10/725 Y02E10/726 Y02E60/17 Y10T137/0318 Y10T137/0379 Y10T137/6579 F03G2007/00 F01K13/02 F01K25/06 F28D20/00 F15B1/024 Y02E60/74 Y10T137/6416 Y10T137/8593 Y10T307/50 Y10T307/735 F04B17/02 F04B49/22 G05B15/02 F01B17/02 F03D15/00 F17C5/002 F15B1/08 F15B11/08 F15B13/042 F15B13/044 F04B39/0005 F04B39/12 F17C13/026 F17C13/04 F15B2211/50554 F15B2211/20538 H02P9/04 F03D9/001 F03D9/002 F03D9/25 Y10T137/6851 F03D9/28 Y02B10/70 F04B39/06 F16H3/72 F01K7/00 F01K13/00 F01K25/04 F03D15/10 F03D13/20 F03D9/17 F01K27/00 F03G7/00 F01B9/02 F01B23/10 F01D15/10 F02C1/02 F02C6/16 Y02E60/15 Y02E10/722 Y02T50/672

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US: 1/1 137/1 137/12 137/12S 137/334 137/340 137/343 137/343S 137/561R 165/45 165/48.1 239/518 239/589 239/589S 290/1.00RP 290/1R 290/43 290/44 290/4D 290/52 290/52P 290/55 290/55S 290/7 290/7P 307/151 307/43 307/87 415/124.1 417/228 417/237 417/26 417/266 417/280 417/280P 417/321 417/321S 417/330 417/330S 417/334 417/334S 417/398 417/398P 417/438 417/438P 417/438S 417/53 417/53P 417/53S 60/325 60/325P 60/327 60/327P 60/329 60/329P 60/370 60/371 60/375 60/375S 60/398 60/398P 60/407 60/408 60/408P 60/408S 60/412 60/413 60/413P 60/413S 60/415 60/415P 60/415S 60/416 60/416S 60/417 60/418 60/418S 60/456 60/509 60/517 60/517P 60/517S 60/522 60/525 60/525P 60/650 60/650P 60/659 60/659P 60/659S 62/121 62/121S 700/282 91/418 91/418S 91/462 91/462P 91/5 91/5P 92/144 92/144P

Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: LIGHTSAIL ENERGY INC

Assignee(s): (std)**:** BERLIN EDWIN P JR ; BERLIN JR EDWIN P ; LIGHTSAIL ENERGY INC ; FONG DANIELLE A ; CRANE STEPHEN E ; HOU YONGXI ; BOWERS TODD ; LIGHSAIL ENERGY INC ; MAHALATKAR KARTIKEYA ; POURMOUSA ABKENAR AMIRHOSSEIN ; LIGHTSALE ENERGY INC ; STAHLKOPF KARL E ; ABKENAR AMIRHOSSEIN POURMOUSA

Assignee(s): BERLIN EDWIN P ; SILICON VALLEY BANK ; GIBRALTAR BUSINESS CAPITAL LLC ; LIGHTSAIL ENERGY INC OAKLAND

Inventor(s): (std)**:** BERLIN JR EDWIN P ; CRANE STEPHEN E ; FONG DANIELLE A ; BOWERS TODD ; HOU YONGXI ; POURMOUSA ABKENAR AMIRHOSSEIN ; MAHALATKAR KARTIKEYA ; BERLIN EDWIN P ; BERLIN EDWIN P JR ; BOWERS TEDD ; STAHLKOPF KARL E ; ABKENAR AMIRHOSSEIN POURMOUSA ; KARTIKEYA MAHALATKAR ; TODD BOWERS ; YONGXI HOU ; AMIRHOSSEIN POURMOUSA ABKENAR ; POURMOUSA ABKENNAR AMIRHOSSEIN ; STAHLKOFF KARL E ; STEPHEN E CRANE ; EDWIN P BERLIN JR ; DANIELLE A FONG ; POURMOUSA ABKENAR AMIR HOSSEIN ; FONG DANIELLE

Agent(s): MBM INTELLECTUAL PROPERTY LAW LLP; ZENZ PATENTANWAELTE PARTNERSCHAFT MBB; NOBLE NICHOLAS; AMPACC LAW GROUP PLLC; CHO STEVE Y; CHO STEVE

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

184) Family number: 43628612 (US2009272316A)

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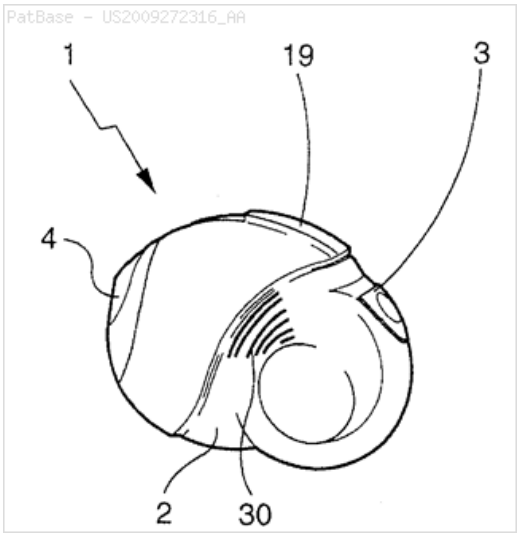
Title: DEVICE FOR SPRAYING A COSMETIC COMPOSITION

Abstract: The present invention relates to a cosmetic assembly comprising a cosmetic or dermatological composition contained in a reservoir, the said composition being liquid and comprising, in a physiologically acceptable medium, at least one pulverulent phase, and the said composition having a viscosity ranging from 5 to 500 mPa.s, and to a device for spraying the said composition, comprising a sonotrode (82) that is fed with composition via a hollow channel for feeding with product to be sprayed.

Classifications:

International (IPC 8-9): A45D33/00 A45D34/00 A45D44/00 A61K8/06 A61Q1/02 A61Q1/12 B05B17/06 B05B7/00 B65D83/00 (Advanced/Invention);
A45D33/00 A45D34/00 A45D44/00 A61K8/04 A61Q1/02 A61Q1/12

B05B17/04 B05B7/00 B65D83/00 (Core/Invention)
CPC: B05B7/0081 B05B7/0815 B05B7/162 B05B17/0623 A45D2200/057 A61K8/585 A61K2800/805 A61Q1/02 B05B17/063
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US: 118/300



Family:

Publication number	Publication date	Application number	Application date
CN101507956 A	20090819	CN200910004382	20090212
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EP2090376 A1	20090819	EP20090152008	20090204
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Priority:

FR20080050923 20080213 US20080071061P 20080410 US20090369854 20090212

Probable Assignee: LOREAL SA

Assignee(s): (std): OREAL

Assignee(s): LOREAL SA ; L OREAL ; L OREAL S A ; L OREAL SA ; L OREAL SOC ANONYME ; LOREAL ; L OREAL SOCIETE ANONYME

Inventor(s): (std): PRUNIER MARION ; ARNAUD PASCAL ; SALEM SOPHIE ; COLLETTE ANNICK ; TIERCE PASCAL ; DURU NICOLAS ; BEAUMARD SOPHIE ; NICOLAS DURU ; PASCAL TIERCE ; SOPHIE SALEM ; PASCAL ARNAUD ; ANNICK COLLETTE ; MARION PRUNIER

Agent(s): LEONARD ARMELLE; LOREAL; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT LLP

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

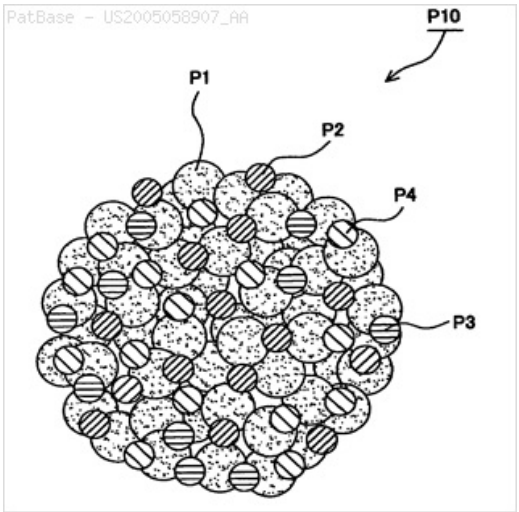
185) Family number: 31348613 (US2005058907A)

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Title: COMPOSITE PARTICLE FOR ELECTRODE AND METHOD OF MAKING THE SAME, ELECTRODE AND METHOD OF MAKING THE SAME, AND ELECTROCHEMICAL DEVICE AND METHOD OF MAKING THE SAME

Abstract: The composite particle for an electrode in accordance with the present invention contains an electrode active material, a conductive auxiliary agent having an electronic conductivity, and an oxidizing/reducing agent. Therefore, this composite particle can construct an effective conductive network, and effectively provide so-called oxidizing/reducing capacity due to the oxidizing/reducing agent. Hence, when the composite particle for an electrode in accordance with the present invention is used as a constituent material of an electrode in an electrochemical device, the electrochemical device can realize a higher capacity.

Classifications:
International (IPC 8-9): B02B5/02 B05D5/12 H01G11/22 H01G11/24 H01G11/26 H01G11/30 H01G11/38 H01G11/40 H01G11/42 H01G11/44 H01G11/46 H01G11/54 H01G11/66 H01G11/86 H01G2/04 H01G4/00 H01G4/005 H01G9/00 H01G9/016 H01G9/038 H01G9/04 H01G9/058 H01M10/05 H01M10/0525 H01M10/36 H01M10/40 H01M4/02 H01M4/04 H01M4/06 H01M4/08 H01M4/13 H01M4/139 H01M4/36 H01M4/38 H01M4/48 H01M4/505 H01M4/525 H01M4/587 H01M4/60 H01M4/62 H01M4/88 H01M6/02 H01M6/16 (Advanced/Invention);
H01G9/042 H01M4/02 H01M4/04 H01M4/13 H01M4/131 H01M4/133 H01M4/139 H01M4/1391 H01M4/1393 H01M4/36 H01M4/50 H01M4/52 H01M4/58 H01M4/62 (Advanced/Non-invention);
B02B5/00 B05D5/12 H01G4/00 H01G4/005 H01G9/00 H01G9/008 H01G9/022 H01G9/04 H01G9/058 H01M10/00 H01M10/36 H01M4/02 H01M4/04 H01M4/06 H01M4/36 H01M4/38 H01M4/62 H01M4/88 H01M6/02 H01M6/16 (Core/Invention);
H01M4/50 H01M4/52 H01M4/58 H01M4/62 (Core/Non-invention)
International (IPC 1-7): B05D5/12 H01G4/00 H01G4/005 H01G9/00 H01G9/016 H01G9/038 H01G9/04 H01G9/058 H01M10/40 H01M4/02 H01M4/04 H01M4/06 H01M4/08 H01M4/36 H01M4/38 H01M4/60 H01M4/62 H01M6/02 H01M6/16
CPC: H01M4/02 H01M4/624 H01M4/62 H01M4/621 H01M10/0525 H01M4/0404 H01M4/0416 H01M4/0419 H01M4/043 H01M4/131 H01M4/133 H01M4/1391 H01M4/1393 H01M2004/021 H01M4/13 H01M4/139
European: H01M10/0525 H01M4/02 H01M4/04 H01M4/04B14 H01M4/04B16 H01M4/04B2 H01M4/04C H01M4/13 H01M4/139 H01M4/62 H01M4/62B T01M4/02C T01M4/131 T01M4/133 T01M4/1391 T01M4/1393 T01M4/62B T01M4/62C Y02E60/12 Y02E60/12B Y02E60/13
US: 241/25 241/25S 252/182.1 252/182.100S 427/58 427/58S 427/79 429/209 429/209P 429/212 429/212S 429/217



429/217S 429/218.1 429/232 429/232P 429/232S

Family:

Publication number	Publication date	Application number	Application date
CN100355124 C	20071212	CN200480013095	20040514
CN100424916 C	20081008	CN200410070246	20040730
CN1305146 C	20070314	CN200410068493	20040702
CN1577922 A	20050209	CN200410068493	20040702
CN1585159 A	20050223	CN200410070246	20040730
CN1788373 A	20060614	CN200480013095	20040514
JP2004348975 A2	20041209	JP20030136270	20030514
JP2005026191 A2	20050127	JP20030270720	20030703
JP2005051123 A2	20050224	JP20030283029	20030730
JP2005051125 A2	20050224	JP20030283091	20030730
JP2005078933 A2	20050324	JP20030307733	20030829
JP2005190831 A2	20050714	JP20030430838	20031225
JP4150331 B2	20080917	JP20030430838	20031225
JP4204380 B2	20090107	JP20030136270	20030514
JP4204407 B2	20090107	JP20030270720	20030703
JP4204419 B2	20090107	JP20030307733	20030829
JP4256741 B2	20090422	JP20030283091	20030730
JP4347631 B2	20091021	JP20030283029	20030730
KR100683440 B1	20070220	KR20040060119	20040730
KR20050004125 A	20050112	KR20040051663	20040702
KR20050014743 A	20050207	KR20040060119	20040730
US2005058907 AA	20050317	US20040901348	20040729
US2005064289 AA	20050324	US20040876636	20040628
US2007003836 AA	20070104	US20050556567	20051216
US7754382 BB	20100713	US20040901348	20040729
WO04102597 A2	20041125	WO2004JP06879	20040514
WO04102597 A3	20050217	WO2004JP06879	20040514

Priority:

JP20030136270 20030514 JP20030270720 20030703 JP20030283091 20030730
JP20030283029 20030730 JP20030307733 20030829 JP20030430838 20031225
WO2004JP06879 20040514

Probable Assignee: TDK CORP

Assignee(s): (std)**:** KURIHARA MASATO ; MARUYAMA SATOSHI ; SUZUKI TADASHI ; TDK CORP

Inventor(s): (std)**:** SUZUKI TADASHI ; KURIHARA MASATO ; MARUYAMA SATOSHI ; KURIHARA MASAHITO ; MARUYAMA SATORU ; TADASHI SUZUKI ; MASATO KURIHARA ; SATOSHI MARUYAMA ; SATOSHI SUZUKI TADASHI KURIHAR ; ATSUSHI SANO ; SANO ATSUSHI

Inventor(s): SUZUKI TADASHI KURIHARA MASATO MARUYAMA SATOSHI

Agent(s): OLIFF AND BERRIDGE PLC

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

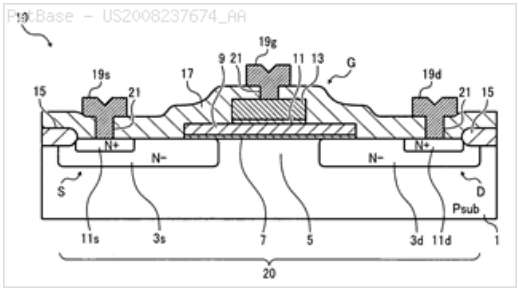
186) Family number: 42227617 (US2008237674A)

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Title: SEMICONDUCTOR DEVICE

Abstract: A semiconductor device includes a semiconductor substrate and a metal-oxide semiconductor transistor. A first dielectric layer of the metal oxide semiconductor transistor overlaps source and drain electrodes and a channel region of the transistor. A first drain region is away from the channel region and the first dielectric layer. A second drain region is between the first drain region and the channel region. A gate electrode is on the first dielectric layer and connected to a gate wire, and includes first and second gate layers and a dielectric layer therebetween. The first gate layer has one edge laterally spaced from the first drain region and resting over the second drain region, and is isolated from the gate wire. The second gate layer is over the first gate layer and is connected to the gate wire.

Classifications:
International (IPC 8-9)**:** B01D9/00 B01J2/02 B01J2/04 B01J2/18 B05B17/06 B05B5/025 B29C67/02 G03G5/00 G03G9/00 G03G9/08 G03G9/087 H01L21/265 H01L21/336 H01L21/822 H01L21/8234 H01L27/04 H01L27/06 H01L27/088 H01L27/108 H01L29/423 H01L29/49 H01L29/78 (Advanced/Invention);
H01L21/265 H01L21/336 (Advanced/Non-invention);
B01D9/00 B01J2/00 B01J2/02 B05B17/04 B05B5/025 G03G5/00 G03G9/08 G03G9/087 H01L21/02 H01L21/70 H01L27/04 H01L27/06 H01L27/085 H01L29/40 H01L29/66 (Core/Invention)
CPC: H01L27/088 H01L29/42324 H01L29/6659 H01L29/7833 B01J2/04 B01J2/18 G03G9/0804 G03G9/0815 G03G9/081 G03G9/0819 G03G9/08755 G03G9/08782 G03G9/0904 H01L21/823418
European: B01J2/04 B01J2/18 G03G9/087D4 G03G9/087F3 G03G9/08B10 G03G9/08B2 G03G9/08B6 G03G9/08D G03G9/09B1 H01L21/8234D H01L27/088 H01L29/423D2B2 H01L29/78F T01L29/66M6T6F11B3
US: 257/296 257/300 257/300P 257/314 257/315 257/316 257/317 257/318 257/319 257/E21.619 257/E21.619S 257/E27.016 257/E27.016S 257/E27.06 257/E27.060S 257/E29.001 422/245.1 422/245.100S 425/6 430/108.1 430/110.4 430/110.400P 430/137.2 430/137.22 430/137.220S



Family:

Publication number	Publication date	Application number	Application date
CN101276839 A	20081001	CN200810088549	20080328
CN101308338 A	20081119	CN200810099164	20080514

CN101308338 B	20110309	CN200810099164	20080514
DE602008041514 D1	20160121	DE200860041514T	20080513
EP1992993 A2	20081119	EP20080251675	20080513
EP1992993 A3	20090729	EP20080251675	20080513
EP1992993 B1	20151209	EP20080251675	20080513
JP2008244352 A2	20081009	JP20070085935	20070328
JP2008281902 A2	20081120	JP20070127691	20070514
KR100957069 B1	20100513	KR20080028349	20080327
KR20080088457 A	20081002	KR20080028349	20080327
US2008237674 AA	20081002	US20080056603	20080327
US2008241727 AA	20081002	US20080119606	20080513
US7915655 BB	20110329	US20080056603	20080327
US8105741 BB	20120131	US20080119606	20080513

Priority:

JP20070085935 20070328 JP20070127691 20070514 EP20080251675 20080513

Probable Assignee: RICOH CO LTD

Assignee(s): (std): RICOH CO LTD ; UEDA NAOHIRO ; NORIKANE YOSHIHIRO ; OHTANI SHINJI ; RICOH KK

Assignee(s): RICOH CO ; RICOH COMPANY LTD

Inventor(s): (std): UEDA NAOHIRO ; OHTANI SHINJI ; NORIKANE YOSHIHIRO ; NAOHIRO UEDA ; YOSHIHIRO NORIKANE ; SHINJI OHTANI ; OTANI SHINJI

Inventor(s): NORIKANE YOSHIHIRO C O RICOH CO LTD ; OHTANI SHINJI C O RICOH CO LTD

Agent(s): SCHWABE SANDMAIR MARX; LEEMING JOHN GERARD; COOPER AND DUNHAM LLP

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

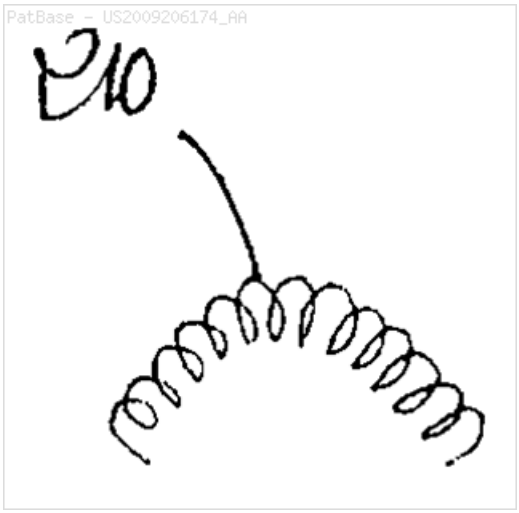
187) Family number: 43628621 (US2009206174A)

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Title: DEVICE FOR SPRAYING A COSMETIC COMPOSITION

Abstract: The present invention relates to a cosmetic assembly comprising a cosmetic or dermatological composition contained in a reservoir, the said composition being liquid and comprising, in a physiologically acceptable medium, at least 10 percent by weight of water and at least one water-soluble coloring agent; and a device for spraying a cosmetic composition, comprising a container containing the said liquid cosmetic composition, equipped with a piezoelectric spraying mechanism for spraying the cosmetic composition in the form of droplets.

Classifications:
International (IPC 8-9): A45D34/00 A45D44/00 A61K8/34 A61K8/46 A61K8/49 B05B1/08 B05B17/06 C09B61/00 (Advanced/Invention); A61Q1/02 (Advanced/Non-invention); A45D34/00 A45D44/00 A61K8/30 B05B1/02 B05B17/04 C09B61/00 (Core/Invention); A61Q1/02 (Core/Non-invention)
CPC: A45D2200/057 A61K8/046 A61K8/466 A61K8/494 A61K2800/43 A61K2800/87 A61Q1/02 B05B17/0623 B05B17/063
European: A61K8/04F A61K8/46F A61K8/49F A61Q1/02 B05B17/06B2 B05B17/06B2B K45D200/05H6 K45D34/04S K61K201/021 K61K201/142 K61K800/43 K61K800/87 L05B17/06B2Y10
US: 239/102.2 239/102.200P



Family:

Publication number	Publication date	Application number	Application date
CN101690925 A	20100407	CN200910004383	20090212
EP2090377 A2	20090819	EP20090152011	20090204
EP2090377 A3	20100602	EP20090152011	20090204
FR2927234 A1	20090814	FR20080050922	20080213
FR2927234 B1	20111021	FR20080050922	20080213
JP2009191070 A2	20090827	JP20090029858	20090212
US2009206174 AA	20090820	US20090370217	20090212

Priority:

FR20080050922 20080213 US20080071060P 20080410 US20090370217 20090212

Probable Assignee: LOREAL SA

Assignee(s): (std): OREAL

Assignee(s): L OREAL ; L OREAL S A ; L OREAL SA ; L OREAL SOCIETE ANONYME ; LOREAL ; LOREAL SA

Inventor(s): (std): BEAUMARD SOPHIE ; SOPHIE SALEM ; MARION PRUNIER ; PASCAL ARNAUD ; VERONIQUE ROULIER ; PASCAL TIERCE ; NICOLAS DURU ; ROULIER VERONIQUE ; TIERCE PASCAL ; DURU NICOLAS ; SALEM SOPHIE ; ARNAUD PASCAL ; PRUNIER MARION

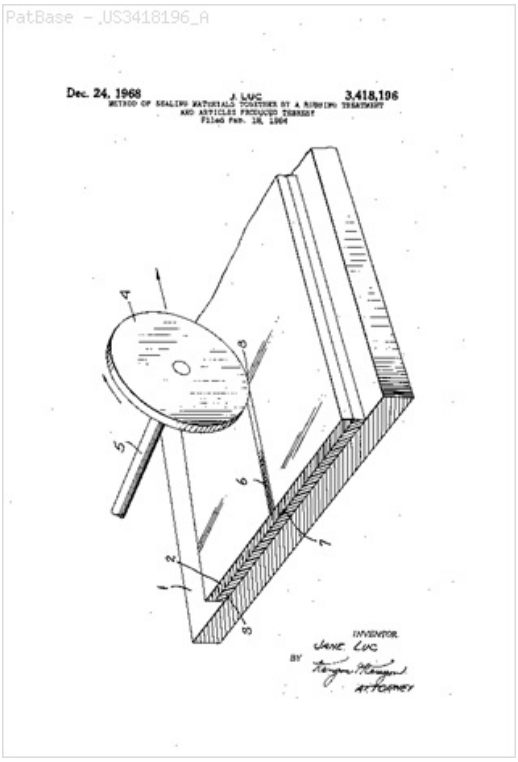
Agent(s): LEONARD ARMELLE; LOREAL; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC

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

188) Family number: 724624 (US3418196A)

Title: METHOD OF SEALING MATERIALS TOGETHER BY A RUBBING TREATMENT AND ARTICLES PRODUCED THEREBY

Abstract: ABSTRACT OF THE DISCLOSURE
A process of sealing or laminating a plurality of materials superimposed on one another and comprising a sealable plastic material, the process comprising the steps of, forming an assembly of superimposed materials comprising a sealable plastic material and, rubbingly contacting a surface of the assembly with at least sufficient pressure to insure that the superimposed materials in the assembly touch one another in the areas of the contact, and wherein the rubbing movement is at a relative speed about equivalent to a 1 inch diameter wheel rotating at least several hundred revolutions per minute, thereby causing materials capable of being sealed which are in contact with one another in the assembly to seal in the areas of the contact.
Description of the invention



Classifications:
International (IPC 8-9): B23K20/04 B23K20/12 B29C59/02 B29C65/00 B29C65/02 B29C65/06 B29C65/48 B32B27/00 B65B51/22 C07C403/00 C08J5/12 C09J5/02 (Advanced/Invention); B29C65/00 B29C65/04 B29C65/08 (Advanced/Non-invention); B23K20/04 B23K20/12 B29C59/02 B29C65/02 B29C65/06 B29C65/48 B32B27/00 B65B51/22 C09J5/02 (Core/Invention); B29C65/00 B29C65/04 B29C65/08 (Core/Non-invention)
International (IPC 1-7): B05D1/34 B05D7/26 B23K19/00 B23K19/02 B23K19/04 B23K20/00 B23K20/10 B23K20/12 B23K21/00 B23K27/00 B29C17/02 B29C25/00 B29C27/00 B29C27/08 B29D3/00 B29D7/20 B29D9/00 B29D9/02 B29D9/04 B32B15/00 B32B31/16 B32B31/22 B32B7/00 B32B7/04 B44C B44D5/04 B65B51/22 C07C175/00 C07C49/61 C08J1/36 C08J5/12 C09D5/02 C09J5/00 C09J5/02
CPC: B29C65/7847 B29C66/81417 B29C66/81422 B29C66/81423 B29C66/81419 B29C66/81427 B29C66/81431 B29C66/81435 B23K20/122 B29C66/727 B29C66/729 B29C66/742 B29C66/7485 B29C66/7486 B29C66/7487 B29K2001/00 B29K2001/12 B29K2023/06 B29K2023/065 B29K2023/12 B29K2025/00 B29K2027/00 B29K2027/06 B29K2027/08 B29K2027/12 B29K2027/18 B29K2033/08 B29K2033/12 B29K2033/20 B29K2061/04 B29K2061/20 B29K2067/00 B29K2075/00 B29K2077/00 B29K2105/04 B29K2313/00 B29K2995/002 Y10T156/1023 Y10T156/1054 Y10T428/24826 B29C66/83413 B29C66/83417 B29C66/83421 B29C66/83521 Y10T428/31 B29C66/712 B29C66/939 B23K20/04 B29C59/02 B29C65/48 B32B27/00 Y10T428/8305 Y10T428/31681 Y10T428/31909 B29C65/02 B29C65/0681 B29C66/7212 B29C66/4312 B29C66/4322 B29C66/8322 B29C66/431 B29C66/8362 B29C66/73754 B29C66/73921 B29C66/73941 B29C66/7392 B29C66/8122 B29C66/45 B29C66/81871 B29C66/022 B29C66/0242 B29C65/04 B29C65/08 B29C66/21 B29C66/43 C07C403/16 C09J5/02 B29C66/71 B29C66/0222 B29C66/0244 B29C66/026 B29C66/028 B29C65/5057 B29C66/8161 B29C66/8491 B29C66/1142 C07C2601/16 B29C66/8242 B29C66/72321 B29C66/72326 B29C66/72328 B32B27/06 B32B15/085 B32B27/12 B32B27/304 B32B27/32 B32B38/0004 B32B2310/027 B32B2310/028 B32B2323/04 B32B2323/10 B29C66/1122 B65B51/222
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US: 156/209 156/244.18 156/244.27 156/247 156/251 156/580 156/73.1 156/73.5 161/38 228/1.1 228/110.1 228/112.1 29/47.0.1 428/198 428/409 428/458 428/515 428/543

Family:

Publication number	Publication date	Application number	Application date
AT304060 B	19721227	AT19640001455	19640220
CA933740 A1	19730918	CA19720136440	19720307
CH460598 A	19680731	CH19640002240	19640221
CH528989 A	19721015	CH19710003382	19710308
CH553773 A	19740913	CH19710007399	19710519
CH555723 A	19741115	CH19720003420	19720308
DE1571045 A1	19701022	DE1964L047035	19640213
DE1571045 B2	19780202	DE1964L047035	19640213
DE1571045 C3	19781012	DE1964L047035	19640213
DE2029561 A1	19711223	DE19702029561	19700616
DE2029561 B2	19770908	DE19702029561	19700616
DE2029561 C3	19780608	DE19702029561	19700616
DE2102020 A1	19720921	DE19712102020	19710116
DE2210855 A1	19720914	DE19722210855	19720307
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FR1584952 A	19700109	FR19640964598	19640221
FR2095630 A5	19720211	FR19710018826	19710525
FR2128169 A2	19721020	FR19710008140	19710309
FR2128169 B2	19750117	FR19710008140	19710309
FR2128733 A1	19721020	FR19720008037	19720308
FR2128733 B1	19770715	FR19720008037	19720308
GB1080442 A	19670823	GB19630007326	19630222
GB1224891 A	19710310	GB19660039153	19660901
GB1385473 A	19750226	GB19710006344	19710309
JP60033587 B4	19850803	JP19720024367	19720309
NL171420 B	19821101	NL19720003013	19720307
NL171420 C	19830405	NL19720003013	19720307
NL7103140 A	19720912	NL19710003140	19710309

NL7108140 A	19711220	NL19710008140	19710614
NL7203013 A	19720912	NL19720003013	19720307
NO127353 B	19730612	NO19640152092	19640220
SE338850 B	19710920	SE19640002094	19640220
SE411857 B	19800211	SE19720002902	19720307
SE411857 C	19800529	SE19720002902	19720307
US3418196 A	19681224	US19640345561	19640218
US3831262 A	19740827	US19720231703	19720303
US4144110 A	19790313	US19720276301	19720731

Priority:

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GB19660039153 19660901 US19690830831 19690605 US19690830831 19690606
DE19702029561 19700616 DE19712102020 19710116 CH19710003382 19710308
FR19710008140 19710309 GB19710006344 19710309 NL19710003140 19710309
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Probable Assignee: BASF SE

Assignee(s): (std): BASF AG ; HOLT PENELOPE JANE VESEY ; HOLT PENELOPE ; LUC P ; LUC NEE HOLT PENELOPE JANE VES ; PIRELLI GENERAL PLC LONDON GB ; PENEROOPU JEEN BESHII RATSUKU ; PENELOPE JANE VESEY LUC TE PARIJS ; BASF SE ; PENELOPE JANE VESEY LUC ; LUC PENELOPE JANE VESEY ; LUC JANE ; LUC J ; JANE LUC STRASBOURG FR

Assignee(s): JANE LUC STRASBOURG ; JANE LUC ; VESEY LUC PENELOPE JANE ; VESEY HOLT PENELOPE ; PIRELLI GENERAL PLC ; PIRELLI GENERAL PLC A PUBLIC CO LTD ; ZIEGLER PAUL O 48 HIGH ST LYMINGTON HAMPSHIRE EXE ; ZIEGLER PAUL O 48 HIGH ST LYMINGTON HAMPSHIRE (EXECUTOR) ; ZIEGLER PAUL O 48 HIGH ST LYMINGTON HAMPSHIRE EXECUTOR ; LUC P J V ; LUC P FR ; LUC TECHNOLOGIES LTD LONDON GB ; PENELOPE J V LUC ; LUC JANE STRASSBURG BAS RHIN FRANKREICH ; LUC NEE HOLT PENELOPE JANE VESEY ; LUC TECHNOLOGIES LTD ; ZIEGLER PAUL O ; HOLT PENELOPE FR ; HOLT CHRISTOPHER RO (EXECUTOR) ; HOLT CHRISTOPHER RO EXECUTOR ; BASF AG 6700 LUDWIGSHAFEN ; HOLT CHRISTOPHER RO ; BADISCHE ANILIN AND SODA FABRIK AG ; BADISCHE ANILIN SODA FAB ; BASF 6700 LUDWIGSHAFEN AG

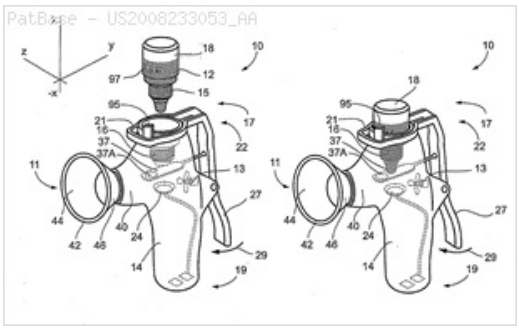
Inventor(s): (std): PENELOPE JANE VESEY LUC ; LUC PENELOPE JANE VESEY ; JANE LUC ; JANE LUC STRASBOURG ; PENEROOPU JEEN BESHII RATSUKU ; SOK ; MUELLER ERNST DR ; LUC PENELOPE J V ; LUC P ; LUC JANE ; LUC GEB HOLT ; JANE VESEY LUC PENELOPE ; HOFFMANN WERNER DR ; LUC GEB HOLT PENELOPE JANE VESEY PARIS FR ; LUC J

Inventor(s): LUC P FR ; LUC JANE STRASSBURG BAS RHIN FRANKREICH ; VESEY LUC PENELOPE JANE ; PENELOPE J V LUC ; JANE LUC STRASBOURG FR

189) Family number: 33188625 (US2008233053A)

Title: METHOD AND DEVICE FOR OPHTHALMIC ADMINISTRATION OF ACTIVE PHARMACEUTICAL INGREDIENTS

Abstract: Disclosed is the use of a mist of a pharmaceutical composition for ophthalmic delivery of a protein or peptide active pharmaceutical ingredient, a related method of treatment and a device useful in implementing the use and method. Disclosed is also the use of a mist for ophthalmic delivery of a pharmaceutical composition including a highly irritating penetration enhancer and an ophthalmically acceptable carrier, a related method of treatment and a device useful in implementing the use and method. Disclosed is also a device for ophthalmic administration configured to direct a mist of a pharmaceutical composition to the eye only when the eye is open. Disclosed is also a self-sterilizing device for ophthalmic administration. Disclosed is also a device and a method for increasing the bioavailability of an ophthalmically administered API in a pharmaceutical composition.



Classifications:
International (IPC 8-9): A61F9/00 A61K31/138 A61K31/222 A61K31/382 A61K31/4168 A61K31/433 A61K31/4704 A61K31/496 A61K31/498 A61K31/5377 A61K31/542 A61K31/5575 A61K31/573 A61K31/575 A61K38/00 A61K39/395 A61K47/46 A61K47/48 A61K9/00 A61K9/12 A61M11/00 B05B3/08 (Advanced/Invention); A61F9/00 A61K38/00 A61K39/395 A61K9/12 A61M11/00 B05B3/02 (Core/Invention)
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European: A61K9/00M16 A61K9/12
US: 128/200.14 128/200.140S 424/130.1 424/130.100S 424/45 514/1.1 514/1.100P 514/179 514/182 514/2 514/226.5 514/236.2 514/249 514/253.04 514/312 514/363 514/392 514/432 514/44R 514/530 514/546 514/548 514/622 514/652 514/777 604/295 604/295S

Family:

Publication number	Publication date	Application number	Application date
EP1848541 A2	20071031	EP20060711136	20060206
EP1848541 A4	20130116	EP20060711136	20060206
US2008233053 AA	20080925	US20060883774	20060206
US2014171490 AA	20140619	US20130963991	20130809
WO06082588 A2	20060810	WO2006IL00145	20060206
WO06082588 A3	20070104	WO2006IL00145	20060206

Priority:

US20050650144P 20050207 US20050742870P 20051207 US20060883774 20060206
WO2006IL00145 20060206 US20070883774 20070806 US20130963991 20130809

Probable Assignee: PHARMALIGHT INC

Assignee(s): (std): GROSS YOSSI ; HERZOG RAFI ; KOEVARY STEVEN B ; PHARMALIGHT INC ; PHARMALINGT INC

Inventor(s): (std): GROSS YOSSI ; HERZOG RAFI ; KOEVARY STEVEN B

Agent(s): MARTIN D MOYNIHAN PRTSI

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

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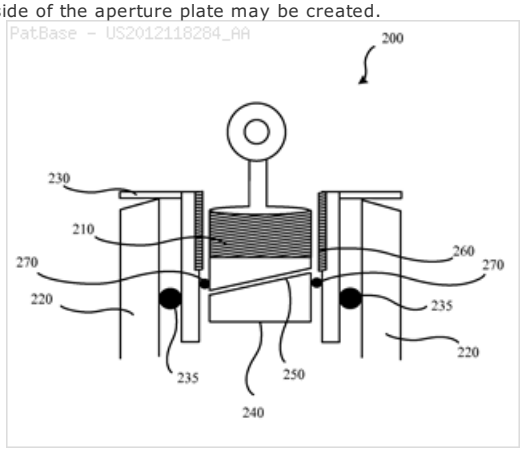
190) Family number: 48165631 (US2012118284A)

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Title: NEGATIVELY BIASED SEALED NEBULIZERS SYSTEMS AND METHODS

Abstract: Methods, systems, and devices are described for creating a negative bias pressure within a liquid reservoir. Embodiments may include providing a liquid reservoir coupled with an aerosol generator. The liquid reservoir may be sealed to create the sealed reservoir. An ambient pressure may be maintained while the liquid reservoir is being sealed and the ambient pressure may be maintained in the sealed liquid reservoir until a portion of the liquid is dispensed. Further, embodiments may include vibrating the aperture plate to dispense the portion of the liquid. The portion of the liquid dispensed may decreases the amount of the liquid in the sealed reservoir. By decreasing the amount of liquid in the sealed reservoir, a negative bias pressure between an air side and a liquid side of the aperture plate may be created.

Classifications:
International (IPC 8-9): A01M1/20 A61H1/00 A61M11/00 A61M11/02 A61M11/06 A61M15/00 A61M16/00 A61M16/06 A61M16/08 A61M16/10 A61M16/14 A61M16/20 B05B17/00 B05B17/06 (Advanced/Invention);
A61H1/00 A61M11/00 A61M15/00 B05B17/00 (Core/Invention)
CPC: B05B17/0646 A61M11/005 A61M15/0085 A61M2205/582 A61M16/0057 A61M16/208 A61M11/003 A61M16/06 A61M16/0875 A61M16/14 A61M11/007 A61M11/06 A01M1/205 A61M11/02 A61M15/0065 A61M2016/0661 A61M11/001 A61M16/0066 A61M16/0833 A61M2016/0024 A61M2205/8206
European: A61M11/06 K61M205/58C
US: 1/1 128/200.21 128/200.210P



Family:

Publication number	Publication date	Application number	Application date
AU2010273955 AA	20110120	AU20100273955	20100719
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BR112012001170 A2	20160301	BR20121101170	20100719
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CA2768379 C	20171010	CA20102768379	20100719
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CN102573967 B	20140611	CN201080036582	20100719
CY1118401 T1	20170628	CY20161101260T	20161206
DE602010036457 D1	20161027	DE201060036457T	20100719
DE602010049206 D1	20180405	DE201060049206T	20100719
DK2453864 T3	20170109	DK20100800673T	20100719
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EA201200137 A1	20120830	EA20120000137	20100719
EP2453962 A1	20120523	EP20100800671	20100719
EP2453962 A4	20140917	EP20100800671	20100719
EP2453962 B1	20180314	EP20100800671	20100719
ES2614917 T3	20170602	ES20100800673T	20100719
HR20161699 T1	20170224	HR20160001699	20161213
HU032278 T2	20170928	HU20100800673T	20100719
IN00967DN2012 A	20150410	IN2012DN00967	20120202
JP2012533366 T2	20121227	JP20120520837T	20100719
JP5841052 B2	20160106	JP20120520837T	20100719
KR101740624 B1	20170526	KR20127004280	20100719
KR20120052998 A	20120524	KR20127004280	20100719
LT2453864 T	20170310	LT20100800673T	20100719
ME02647 B	20170620	ME20160000290	20100719
MK7009 T1	20170630	MK20160000896T	20161213
MX2012000748 A1	20120419	MX20120000748	20100719
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PT2453864 T	20161222	PT20100800673T	20100719
RS55481 B1	20170428	RS20160001113	20100719
SI2453864 T1	20170228	SI20100031350T	20100719
SMT201700045 B	20170308	SM20170000045T	20170120
TR201618137 T4	20170123	TR20160018137T	20100719
US2012118284 AA	20120517	US20100384575	20100719
US2015283336 AA	20151008	US20150742464	20150617
US2017252523 AA	20170907	US20170599095	20170518
US9084862 BB	20150721	US20100384575	20100719
US9682201 BB	20170620	US20150742464	20150617
WO11009131 A1	20110120	WO2010US42471	20100719

Priority:

US20090226567P 20090717 US20090226591P 20090717 EP20100800671 20100719
EP20100800673 20100719 US20100384575 20100719 WO2010US42471 20100719
WO2010US42473 20100719 US20120384575 20120117 US20150742464 20150617
US20170599095 20170518

Probable Assignee: NEKTAR THERAPEUTICS

Assignee(s): (std): DAY RICHARD FRANCIS ; NEKTAR THERAPEUTICS ; BLAKEY DAVID MARK

Assignee(s): CAMBRIDGE CONSULTANTS LTD ; NEKTAR THERAPEUTICS SAN CARLOS ; NEKTAR THERAPEUTICS SAN FRANCISCO ; WELLS FARGO BANK NATIONAL ASSOCIATION COLLATERAL A ; WELLS FARGO BANK NATIONAL ASSOCIATION COLLATERAL AGENT AS ; TC LENDING LLC COLLATERAL AGENT AS

Inventor(s): (std): GORDON BENJAMIN MORRIS ; HAYES MATTHEW JAMES ; GARDNER STEVEN DAVID ; HAYNES MATTHEW JAMES ; BENJAMIN MORRIS GORDON ; STEVEN DAVID GARDNER ; MATTHEW JAMES HAYES ; BLAKEY DAVID ; DAY RICHARD ; FRANCIS DAY RICHARD ; MARK BLAKEY DAVID ; DAY RICHARD FRANCIS ; BLAKEY DAVID MARK

Inventor(s): DAVID MARK BLAKEY ; RICHARD FRANCIS DAY

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; MCCARTHY TETRAULT LLP; SPARING ROEHL HENSELER; HENSELER DANIELA; CARVAJAL Y ISABEL; ONDA MAKOTO; ONDA HIRONORI; MEHMET NAZIM AYDIN DERIS; KILPATRICK TOWNSEND AND STOCKTON LLP; SAAB KARAM J ET AL

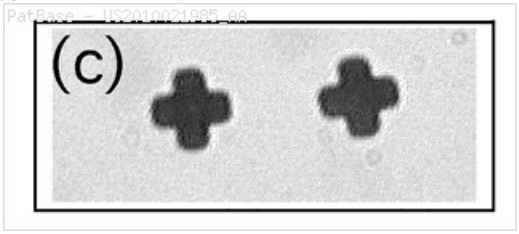
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191) Family number: 42176631 (US2010021985A)

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Title: MECHANICAL PROCESS FOR CREATING PARTICLES IN FLUID

Abstract: A method of producing at least one of microscopic and submicroscopic particles includes providing a template that has a plurality of discrete surface portions, each discrete surface portion having a surface geometry selected to impart a desired geometrical property to a particle while being produced; depositing a constituent material of the at least one of microscopic and submicroscopic particles being produced onto the plurality of discrete surface portions of the template to form at least portions of the particles; separating the at least one of microscopic and submicroscopic particles comprising the constituent material from the template into a fluid material, the particles being separate from each other at respective discrete surface portions of the template; and processing the template for subsequent use in producing additional at least one of microscopic and submicroscopic particles. A multi-component composition includes a first material component in which particles can be dispersed, and a plurality of particles dispersed in the first material component. The plurality of particles is produced by methods according to embodiments of the current invention.



Classifications:
International (IPC 8-9): B05C11/00 B05D7/00 B22F9/12 B29B9/10 C04B41/50 C07F7/18 C08K9/00 C09D103/00 C09D11/00 C09D189/00 C09K3/00 C12N11/00 C12N7/00 C23C14/34 H01F1/00 (Advanced/Invention);
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CPC: C23C14/0005 B01J13/00 C23C14/04 C23C16/01 C23C16/04 C25D1/20 C25D1/003 C25D1/006 B22F9/12 B29B9/10 B82Y25/00 H01F1/009 H01F1/44 H01F1/0054
European: B01J13/00 B82Y25/00 C23C14/00B C23C14/04 C23C16/01 C23C16/04 C25D1/10 C25D1/20 H01F1/00E10 H01F1/00E12 T01F1/44
US: 106/124.1 106/124.100S 106/162.1 106/162.100S 106/287.35 106/31.13 106/31.130S 117/108 118/72 118/72S 164/46 204/192.15 204/192.150S 249/66.1 252/182.11 252/408.1 252/62.51R 252/62.51RS 252/625 252/625S 264/0.5 264/1.1 264/104 264/301 264/309 264/311 264/405 264/442 264/482 264/81 425/436R 427/212 427/212S 427/580 427/580S 435/174 435/174P 435/235.1 435/235.100S 523/200 523/200S
Locarno class: 26/45

Family:

Publication number	Publication date	Application number	Application date
CA2681374 AA	20080925	CA20082681374	20080320
EP2134665 A1	20091223	EP20080727029	20080320
EP2134665 A4	20110914	EP20080727029	20080320
US2010021985 AA	20100128	US20090563907	20090921
US2014158943 AA	20140612	US20130025526	20130912
WO08115550 A1	20080925	WO2008US03679	20080320

Priority:

US20070918896P 20070320 WO2008US03679 20080320 US20080100471P 20080926
US20090563907 20090921 US20130025526 20130912

Probable Assignee: THE UNIV OF CALIFORNIA

Assignee(s): (std): MASON THOMAS G ; UNIV CALIFORNIA

Assignee(s): THE UNIV OF CALIFORNIA ; UNIV OF CALIFORNIA ; NATIONAL SCIENCE FOUNDATION ; OF CALIFORNIA UNIV ; REGENTS OF THE UNIVERSITY OF CALIFORNIA ; THE REGENTS OF THE UNIVERSITY OF CALIFORNIA ; THE UNIV ; THE UNIV CALIFORNIA

Inventor(s): (std): MASON THOMAS G

Agent(s): WRIGHT HOWARD HUGH BURNBY; VENABLE LLP; DALEY HENRY J ET AL

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

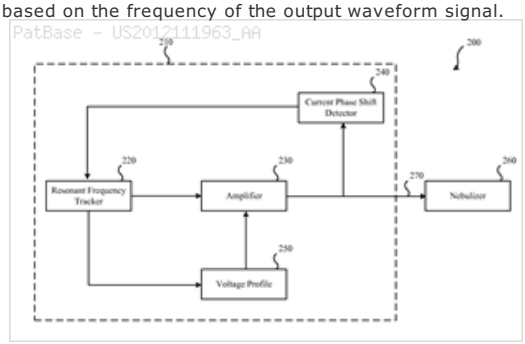
192) Family number: 48165634 (US2012111963A)

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Title: SYSTEMS AND METHODS FOR DRIVING SEALED NEBULIZERS

Abstract: Various methods, devices, and systems are described for aerosolizing a liquid. Embodiments may include sealing the liquid within a reservoir. An output waveform signal may be generated. A nebulizer element may be vibrated to aerosolize the liquid. A negative pressure may be produced within the reservoir as the liquid is aerosolized. The output

waveform signal may cause the nebulizer element to vibrate. Embodiments may involve determining a phase shift between a current of the output waveform signal and a voltage of the output waveform signal. Also, embodiments may involve adjusting a frequency of the output waveform signal at least partially based on the phase shift. Further, embodiments may involve adjusting the voltage of the output waveform signal at least partially based on the frequency of the output waveform signal.



Classifications:

International (IPC 8-9): A61H A61H1/00 A61M A61M11/00 A61M11/02 A61M15/00 A61M16/00 A61M16/06 A61M16/08 A61M16/14 B05B B05B1/08 B05B12/02 B05B17/00 B05B17/06 B05B5/025 B06B B06B1/02 B06B1/06 G01R25/00 H01L H01L41/04 H03K3/00 (Advanced/Invention);
A61M16/00 B05B12/02 (Advanced/Non-invention);
A61H (Subclass/Invention)

CPC: B05B12/02 B05B17/06 H01L41/042 A61M2205/3317 A61M16/14 B05B17/0646 B06B1/0253 B06B1/06 B06B2201/77 A61M11/02 A61M11/001 A61M16/0833 A61M2016/0024 A61M2205/8206 A61M11/005 A61M15/0085 B05B17/0669 A61M16/0066 A61M16/024

European: A61M11/00F A61M15/00F A61M16/14 K61M16/08D4 K61M205/82B

US: 1/1 128/200.14 128/200.16 239/289 239/289S 239/3 239/3P 324/76.77 324/76.770S 327/108 327/108S

Family:

Publication number	Publication date	Application number	Application date
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US9533118 BB	20170103	US20130017531	20130904
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Priority:

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WO2010US42473 20100719 US20120384579 20120117 US20130017531 20130904
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Probable Assignee: NEKTAR THERAPEUTICS

Assignee(s): (std): GARDNER STEVEN DAVID ; GORDON BENJAMIN MORRIS ; HAYES MATTHEW JAMES ; NEKTAR THERAPEUTICS

Assignee(s): TC LENDING LLC A COLLATERAL AGENT AS ; WELLS FARGO BANK NATIONAL ASSOCIATION COLLATERAL A ; WELLS FARGO BANK NATIONAL ASSOCIATION COLLATERAL AGENT AS ; TC LENDING LLC COLLATERAL AGENT AS ; CAMBRIDGE CONSULTANTS LTD

Inventor(s): (std): MATTHEW JAMES HAYES ; DAVID GARDNER STEVEN ; MORRIS GORDON BENJAMIN ; JAMES HAYES MATTHEW ; HAYES MATTHEW ; STEVEN DAVID GARDNER ; BENJAMIN MORRIS GORDON ; GORDON BENJAMIN MORRIS ; HAYES MATTHEW JAMES ; GARDNER STEVEN DAVID ; HAYNES MATTHEW JAMES

Inventor(s): MATTHEW JAMES HAYNES ; MATTHEW HAYES

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; MCCARTHY TETRAULT LLP; HENSELER DANIELA; SPARING ROEHL HENSELER; LIU SHEN AND ASSOCIATES; SANFORD TCOLB AND CO; ONDA MAKOTO; ONDA HIRONORI; KILPATRICK TOWNSEND STOCKTON LLP; KILPATRICK TOWNSEND AND STOCKTON LLP; SAAB KARAM J ET AL

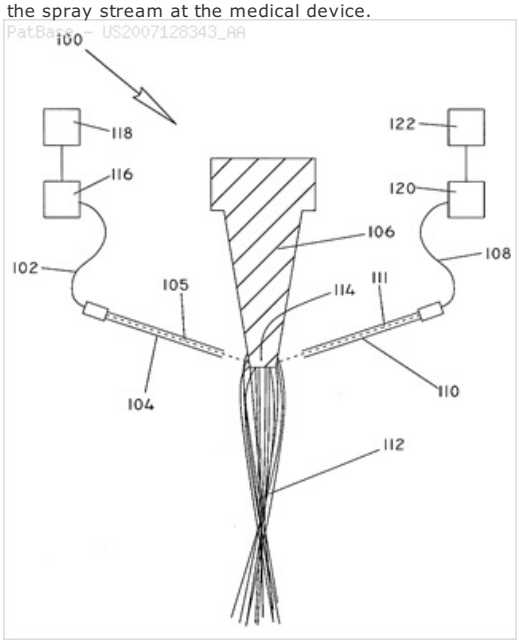
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193) Family number: 34494634 (US2007128343A)

Title: APPARATUS AND METHODS FOR APPLYING COATINGS

Abstract: The invention relates to systems and methods for forming coatings that can elute active agents and coating produced by the same. In an embodiment, the invention includes an apparatus for applying a coating to a medical device including a first spray nozzle, a first coating composition supply conduit, a second spray nozzle, and a second coating composition supply conduit. In an embodiment, the invention includes a method of applying a coating to a medical device including forming a first spray stream, forming a second spray stream, and directing the spray streams toward the medical device so that the first spray stream intersects the second spray stream before hitting the medical device. In an embodiment, the invention includes an apparatus for applying a coating to a medical device including a spray nozzle, a first coating composition supply conduit and a second coating composition supply conduit. In an embodiment, the invention includes a method of applying a coating to a medical device including applying a first composition onto the surface of a spray nozzle, applying a second composition onto the surface of the spray nozzle, generating a spray stream comprising the first composition and the second composition with the nozzle and directing the spray stream at the medical device.

Classifications:
International (IPC 8-9): A61L33/00 B05B17/06 B05B7/06 B05C5/00 B05D1/02 (Advanced/Invention);
A61L33/00 B05B17/04 B05C5/00 B05D1/02 (Core/Invention)
CPC: A61L27/34 A61L27/54 A61L29/085 A61L29/16 A61L31/10 A61L31/16 A61L2300/00 A61L2300/606 A61L2420/02 B05B1/26 B05B7/0408 B05B7/0416 B05B7/0846 B05B13/0228 B05B17/06 B05B17/0623 B05D1/002 B05D1/02 B05D1/34 B05D3/042
European: A61L27/34 A61L27/54 A61L29/08B A61L29/16 A61L31/10 A61L31/16 B05B17/06 B05B17/06B2 B05B7/04C B05D1/00C B05D1/02 B05D1/34 K61L300/00 K61L300/606 K61L420/02 L05B1/26 L05B13/02B1 L05B17/06B2 L05B7/04A L05B7/04C L05B7/08A3 L05D3/04C5
US: 118/20 118/200 118/232 118/300 118/300S 118/313 118/500 118/642 239/102 239/543 239/9 427/2.1 427/2.100P 427/421.1 427/421.100S 525/242



Family:

Publication number	Publication date	Application number	Application date
US2007128343 AA	20070607	US20060559817	20061114
US8166909 BB	20120501	US20060559817	20061114
WO07059144 A1	20070524	WO2006US44218	20061114

Priority:
US20050736995P 20051115 US20060559817 20061114

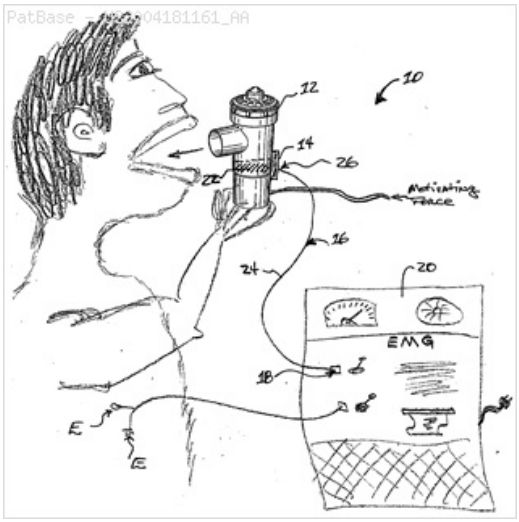
Probable Assignee: SURMODICS INC
Assignee(s): (std): CHAPPA RALPH A ; SURMODICS INC
Inventor(s): (std): CHAPPA RALPH A
Inventor(s): CHAPPA RALPH
Agent(s): PAULY DEVRIES SMITH AND DEFFNER LLC
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR 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

194) Family number: 30868634 (US2004181161A)

Title: APPARATUS FOR EVALUATING A PATIENT'S LARYNGEAL COUGH REFLEX AND ASSOCIATED METHODS

Abstract: An apparatus and method for evaluating a patient's laryngeal cough reflex function includes a nebulizer capable of being actuated to atomize a cough-inducing substance, a switch associated with the nebulizer, the switch responsive to actuation of the nebulizer, and a connection between the switch and an EMG machine to thereby activate the EMG machine responsive to the switch. Elapsed time between switch actuation and electrical activity sensed in a muscle which contracts to produce a cough is indicative of status of the patient's laryngeal cough reflex.
Classifications:
International (IPC 8-9): A61B5/00 A61B5/04 A61B5/0488 A61B5/08 A61B5/087 A61B5/113 A61M11/00 A61M11/02 A61M11/06 A61M15/00 A61M15/06 A61M16/14 A61M16/20 B05B7/00 (Advanced/Invention);
A61B5/00 A61M11/02 A61M11/06 A61M15/06 A61M16/00 A61M16/14 (Advanced/Non-invention);
A61B5/08 A61M11/00 A61M11/06 A61M15/00 (Core/Invention)
International (IPC 1-7): A61B5/08
CPC: A61M2206/11 A61B5/4839 A61B5/087 A61B5/7278 A61B5/0004 A61B5/7282 A61M16/14 A61B5/0488 A61M11/005 A61M15/0018 A61M15/0085 A61M2205/3334 A61M2205/8206 A61M2209/01 A61M11/003 A61M15/0036 A61M2205/6036 A61M11/002 A61M15/0015 A61M15/0021 A61M15/004 A61M15/0066 A61M2202/0007 A61M16/0833 A61B5/08 A61B5/0823 A61M11/02

A61M11/06 A61M15/0003 A61M15/002 A61M2016/0021 A61M2016/0036 A61M2202/0468 A61M2205/3553 A61M2205/3569 A61M2205/3584 A61M2205/3592 A61M2205/502 A61M2205/52 A61M2205/6045 A61M2205/8225 A61M2206/18 A61M15/0065 A61M15/009 A61M15/06 A61M16/20
European: A61B5/08 A61M11/02 A61M11/06 A61M15/00P K61M15/00A13 K61M15/00A4 K61M16/00A14B2 K61M16/00A8B2 K61M202/04N K61M205/35R1 K61M205/35R3 K61M205/35T1 K61M205/35T2 K61M205/50A K61M205/52 K61M205/60H K61M205/82C3 K61M206/11 K61M206/18
US: 1/1 128/200.14 128/200.140P 128/200.19 128/200.21 128/200.210S 128/203.12 128/203.120S 128/203.15 128/203.150P 600/529 600/529P 600/534 600/534P 600/538 600/538P 600/546 600/546P 600/546S



Family:

Publication number	Publication date	Application number	Application date
AU2004213030 AA	20040902	AU20040213030	20040220
AU2010226641 AA	20100923	AU20100226641	20100317
AU2010226641 AA	20110929	AU20100226641	20100317
CA2516564 AA	20050818	CA20042516564	20040220
CA2755859 AA	20100923	CA20102755859	20100317
CN102355916 A	20120215	CN201080012243	20100317
EP1594402 A1	20051116	EP20040713358	20040220
EP2408495 A1	20120125	EP20100710729	20100317
MX2011009684 A1	20111206	MX20110009684	20100317
MXPA05008845 A1	20060217	MX2005PA08845	20040220
US2004181161 AA	20040916	US20040783442	20040220
US2007107725 AA	20070517	US20060557993	20061109
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US2007163572 AA	20070719	US20060431689	20060510
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US2011105936 AA	20110505	US20110985685	20110106
US2012053482 AA	20120301	US20110293633	20111110
US2013267864 AA	20131010	US20130875348	20130502
US2014034051 AA	20140206	US20130044242	20131002
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US7726306 BB	20100601	US20060557993	20061109
US8109266 BB	20120207	US20100724785	20100316
US8333190 BB	20121218	US20110985685	20110106
US8573203 BB	20131105	US20110293633	20111110
US9022027 BB	20150505	US20130875348	20130502
US9227029 BB	20160105	US20130044242	20131002
WO04073516 A1	20040902	WO2004US05003	20040220
WO04073516 C2	20041028	WO2004US05003	20040220
WO10107912 A1	20100923	WO2010US27662	20100317
WO14179083 A1	20141106	WO2014US34474	20140417

Priority:

US20030448915P 20030220
US20060431689 20060510
US20070626500 20070124
WO2010US27662 20100317
US20130875348 20130502
US20040783442 20040220
US20060557993 20061109
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US20110985685 20110106
US20130044242 20131002
WO2004US05003 20040220
US20060557993 20061109
US20100724785 20100316
US20110293633 20111110

Probable Assignee: PNEUMOFLEX SYSTEMS LLC

Assignee(s): (std): ADDINGTON ROBERT W ; ADDINGTON W R ; ADDINGTON W ROBERT ; BRIGANTI MARY W ; MILLER STUART ; PNEUMOFLEX SYSTEMS LLC ; STEPHENS ROBERT ; PNEUMOFLEX SYSTEMS L L C ; MILLER STUART P ; STEPHENS ROBERT E ; PHELIPA MICHAEL M

Assignee(s): ADDINGTON ROBERT ; PHELIPA MICHAEL

Inventor(s): (std): ADDINGTON ROBERT W ; STEPHENS ROBERT ; MILLER STUART ; ADDINGTON W ROBERT ; ADDINGTON W R ; BRIGANTI MARY ; ROBERT STEPHENS ; ROBERT W ADDINGTON ; STUART MILLER ; BRIGANTI MARY W ; MILLER STUART P ; PHELIPA MICHAEL M ; STEPHENS ROBERT E ; PHELIPA MICHAEL ; ADDINGTON ROBERT ; ROBERT ADDINGTON ; MICHAEL PHELIPA

Inventor(s): ADDINGTON W

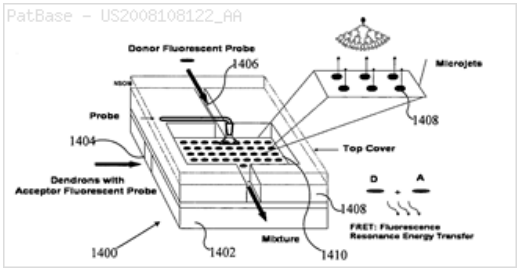
Agent(s): FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; HERBERT SMITH FREEHILLS; FPA PATENT ATTORNEYS PTY LTD; MACRAE AND CO; RIDOUT AND MAYBEE LLP; BANKES STEPHEN CHARLES DIGBY; ALLEN DYER DOPPELT MILBRATH AND GILCHRIST PA; WARTHER RICHARD K ET AL

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

195) Family number: 41785640 (US2008108122A)

Title: MICROCHEMICAL NANOFACTORIES

Abstract: Embodiments of an apparatus, system, and method for chemical synthesis and/or analysis are disclosed. One embodiment of a disclosed apparatus comprises a laminated, microfluidic structure defining a reactor and a separator. Such apparatuses, or portions thereof, generally have dimensions ranging from about 1 micrometer to about 100 micrometers. To implement synthetic processes, disclosed embodiments of the apparatus generally include at least one unit operation, such as a mixer, a valve, a separator, a detector, and combinations thereof. Individual apparatuses may be coupled both in series and in parallel to form a system for making chemical compounds. An individual apparatus or a system also can be used in combination with known devices and processes.



Classifications:
International (IPC 8-9): B01D57/02 B01J19/00 B05C11/00 C07C311/01 C07D215/00 C07D499/04 C07J1/00 C08G63/00 C12N9/00 (Advanced/Invention);
B01D57/02 B01J19/00 C07C311/00 C07D215/00 C07D499/00 C07J1/00 C08G63/00 C12N9/00 (Core/Invention)
CPC: C07D255/02 B01F5/0475 B01F5/0641 B01F5/0646 B01F5/0647 B01F13/0062 B01F13/0066 B01J19/0093 B01J2219/00783 B01J2219/0086 B01J2219/00873 B01J2219/00889 B01J2219/00891 B01J2219/00907 B01J2219/00914 B01J2219/00916 B01J2219/00972 B01L2200/0631 B01L2300/0864 B01L2300/0867 B01L2300/0887 B01L2400/0655 C08L101/005 G01N27/44791 G01N30/0005 G01N30/6095 B01L3/502707
European: B01F13/00M2A B01F13/00M2C B01F5/04C14C B01F5/06B3C2 B01F5/06B3F B01F5/06B3F2 B01J19/00R B01L3/00C6M2 B01L3/5027A C07D255/02 C08L101/00B G01N27/447C7 L01J219/00R10F2 L01J219/00R12 L01J219/00R14 L01J219/00R16 L01J219/00R18B L01J219/00R18F2 L01J219/00R18H L01J219/00R2 L01J219/00R22B4B2 L01L200/06F L01L300/08E2 L01L300/08E4 L01L300/08F L01L400/06M8 S01N30/00A S01N30/60M
US: 118/610 118/612 118/712 204/601 204/601S 204/643 204/643S 422/129 422/129S 422/198 422/198S 435/183 435/183P 528/271 528/271S 540/304 540/304S 546/152 546/152S 552/201 552/201S 552/623 552/623S 564/80 564/80S

Family:

Publication number	Publication date	Application number	Application date
US2008108122 AA	20080508	US20070897998	20070831
US2012298037 AA	20121129	US20120489118	20120605

Priority:

US20060841778P 20060901 US20070897998 20070831 US20120489118 20120605

Probable Assignee: STATE OF OREGON ACTING BY AND THROUGH STATE BOARD OF HIGHER EDUCATION ON BEHALF OF OREGON STATE UNIV

Assignee(s): (std)**:** CHANG CHIH HUNG ; OREGON STATE ; PAUL BRIAN KEVIN ; REMCHO VINCENT THOMAS ; STATE UNIV ; STATE UNIVERSITY

Assignee(s): STATE OF OREGON ACTING BY AND THROUGH THE STATE BOARD OF HIGHER EDUCATION ON BEHALF OF OREGON ; STATE OF OREGON ACTING BY AND THROUGH STATE BOARD OF HIGHER EDUCATION ON BEHALF OF OREGON STATE UNIV ; STATE OF OREGON ACTING BY AND THROUGH STATE BOARD ; STATE OF OREGON ACTING BY AND THROUGH STATE BOARD OF HIGHER EDUCATION ON BEHALF OF OREGON

Inventor(s): (std)**:** PAUL BRIAN KEVIN ; REMCHO VINCENT THOMAS ; PAUL BRIAN K ; CHANG CHIH HUNG ; REMCHO VINCENT T

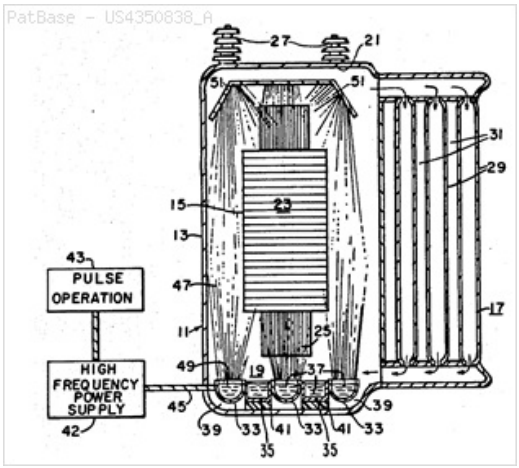
Inventor(s): PAUL BRIAN ; REMCHO VINCENT

Agent(s): KLARQUIST SPARKMAN LLP

196) Family number: 2003641 (US4350838A)

Title: Ultrasonic fluid-atomizing cooled power transformer

Abstract: A vapor-cooled power transformer characterized by a transformer within a sealed housing, and means for applying ultrasonic vibrations to a dielectric liquid within the housing in order to vaporize the fluid and to apply it to the exposed surfaces of the transformer.



Classifications:
International (IPC 8-9): B05B17/06 F25D7/00 F25D9/00 H01F27/10 H01F27/18 H05K7/20 (Advanced/Invention);
B05B17/04 F25D7/00 F25D9/00 H01F27/10 H05K7/20 (Core/Invention)
International (IPC 1-7): F25B27/00 F25D7/00 F25D9/00 H01F27/08 H01F27/10 H01F27/18 H01H9/00 H05K7/20
CPC: B05B17/0615 H01F27/18
European: B05B17/06B1 H01F27/18
US: 165/104.33 174/15.1 174/15R 336/58

Family:

Publication number	Publication date	Application number	Application date
CA1157114 A1	19831115	CA19810379843	19810616
DE3124408 A1	19820325	DE19813124408	19810622
DE3124408 C2	19900621	DE19813124408	19810622
FR2485709 A1	19811231	FR19810012687	19810626
FR2485709 B1	19840706	FR19810012687	19810626

GB2080631 A1	19820203	GB19810019655	19810625
GB2080631 B2	19830817	GB19810019655	19810625
JP1301109 C3	19860214	JP19810100377	19810627
JP57043181 A2	19820311	JP19810100377	19810627
JP60019425 B4	19850516	JP19810100377	19810627
NO812132 A	19811228	NO19810002132	19810623
NO812132 L	19811228	NO19810002132	19810623
SE447314 B	19861103	SE19810004029	19810626
SE447314 C	19870212	SE19810004029	19810626
SE8104029 A	19811228	SE19810004029D	19810626
SE8104029 L	19811228	SE19810004029	19810626
US4350838 A	19820921	US19800163902	19800627

Priority:

US19800163902 19800627 CA19810379843 19810616

Probable Assignee: ELECTRIC POWER RES INST

Assignee(s): (std): ELECTRIC POWER RES INST ; WESTINGHOUSE ELECTRIC CO ; WESTINGHOUSE ELECTRIC CORP

Assignee(s): WEC ; WESTINGHOUSE ELECTRIC CORP PITTSBURGH PA US ; ELECTRIC POWER RESEARCH INST ; ELECTRIC POWER RESEARCH INST INC ; HARROLD RONALD T ; ABB POWER T AND D CO INC ; ABB POWER T AND D CO INC A DE CORP

Inventor(s): (std): HARROLD RONALD THOMAS ; HARROLD RONALD T ; RONARUDO TOOMASU HARORUDO ; HARROLD R T

Inventor(s): HARROLD RONALD THOMAS MURRYSVILLE PA ; R T HARROLD ; HARROLD RONALD THOMAS MURRYSVILLE PA US ; THOMAS HARROLD RONALD ; RONALD THOMAS HARROLD

Agent(s): OLDHAM AND CO

197) Family number: 30085642 (US2002030788A)

© PatBase

Title: TINTED LENSES AND METHODS OF MANUFACTURE

Abstract: The present invention recognizes that lenses, such as contact lenses, can be pigmented using ink that include polymers or polymerizable monomers, preferably the same monomers used to make the lens. The ink can be used to make images on or within the lens. Images made using these inks are preferably digital and can be used in a variety of printing methods, including ink-jet printing.

Classifications:

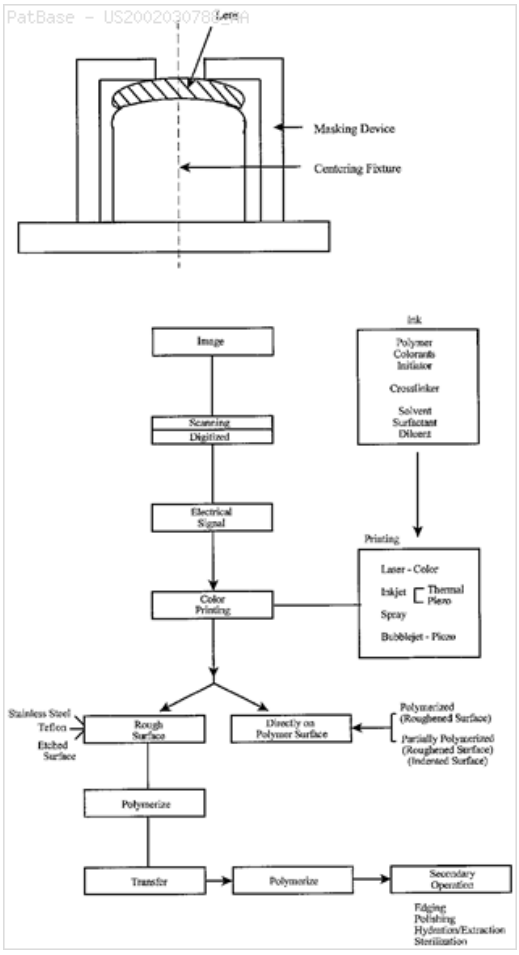
International (IPC 8-9): A61F2/14 B05D1/32 B05D1/40 B29C39/02 B29D11/00 B41F17/30 B41F17/36 B41J2/01 B41J2/17 B41J3/407 B41M3/00 B41M5/00 B41M5/26 C03C17/00 C08J7/12 C08L101/00 C09D11/00 C09D11/02 C09D11/10 C09D11/101 C09D11/107 C09D11/30 C09D201/00 D06P5/30 G02B1/04 G02B3/00 G02B5/22 G02C7/02 G02C7/04 G02C7/10 G11B27/028 G11B27/031 H04N1/00 (Advanced/Invention);
B29C39/02 B29L11/00 B41J2/01 B41M5/52 G02B1/04 (Advanced/Non-invention);
G02C7/00 G11B27/022 (Core/Invention);
G02C (Subclass/Invention)

International (IPC 1-7): A61F2/14 B29C39/02 B29D11/00 B29L11/00 B41F17/30 B41J2/01 C03C17/00 C09D11/00 G02B1/04 G02B5/22 G02C0/00 G02C1/00 G02C7/02 G02C7/04 G02C7/10 G11B27/028 G11B27/031 H04N1/00

CPC: B29K2995/002 G02C7/04 B29D11/00903 G02C7/108 G02C7/046 B29D11/00317 B41M3/003 B41M5/52 B41M5/5236 B41M5/5254 C09D11/101 G02B1/041 G02B1/043

European: B29D11/00C7 B41M3/00F C09D11/101 D06P5/30 G02B1/04B G02B1/04B2 G02C7/04 G02C7/04C G02C7/10M L29K995/00E2 L41M5/52 L41M5/52G L41M5/52K

US: 264/2.1 264/2.6 351/159 351/159.24 351/159.240P 351/159.25 351/159.250P 351/159.32 351/159.320P 351/159.66 351/159.660S 351/159.73 351/159.74 351/159.740P 351/159P 351/16 351/160H 351/160R 351/162 351/162P 351/165 351/177 359/642 427/466 522/167 522/175 522/182 522/64 522/81 522/83 523/160 523/161 523/161S 623/6.64 623/6.640S



Family:

Publication number	Publication date	Application number	Application date
AT315795 E	20060215	AT20000992769T	20001023
AU200147046 A1	20010612	AU20010047046	20001023
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AU2003228543 AA	20031110	AU20030228543	20030416
AU2004280967 AA	20050421	AU20040280967	20041006
AU782256 B2	20050714	AU20010047046	20001023

CA2388655 AA	20020425	CA20002388655	20001023
CA2388655 C	20101214	CA20002388655	20001023
CA2483379 AA	20041021	CA20032483379	20030416
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EP1226465 A2	20020731	EP20000992769	20001023
EP1226465 A4	20030514	EP20000992769	20001023
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EP1497688 A2	20050119	EP20030726301	20030416
EP1497688 A4	20061018	EP20030726301	20030416
EP1680701 A2	20060719	EP20040794477	20041006
EP1680701 A4	20070124	EP20040794477	20041006
ES2256088 T3	20060716	ES20000992769T	20001023
JP2003515787 T2	20030507	JP20010542254T	20001023
JP2005524099 T2	20050811	JP20040500106T	20030416
JP2007507758 T2	20070329	JP20060534348T	20041006
JP2011076105 A2	20110414	JP20100256535	20101117
JP4994844 B2	20120808	JP20060534348T	20041006
MXPA02004157 A1	20050217	MX2002PA04157	20001023
MXPA06003767 A1	20070222	MX2006PA03767	20041006
NZ518516 A	20040730	NZ20000518516	20001023
NZ535954 A	20060831	NZ20030535954	20030416
US2002030788 AA	20020314	US20010949520	20010907
US2003071964 AA	20030417	US20020128064	20020423
US2004130676 AA	20040708	US20030679645	20031006
US2005168688 AA	20050804	US20040960366	20041006
US2005272833 AA	20051208	US20050188242	20050722
US6315410 BA	20011113	US20000696933	20001025
US6315410 C1	20040420	US20000696933	20001025
US6834955 BB	20041228	US20010949520	20010907
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US7048375 BB	20060523	US20030679645	20031006
US7267846 BB	20070911	US20040960366	20041006
US7549742 BB	20090623	US20050188242	20050722
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Priority:

US19990162695P 19991101 US20000218710P 20000717 WO2000US41454 20001023
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US20020128064 20020423 WO2003US11655 20030416 US20030679645 20031006
JP20060534348 20041006 US20040960366 20041006 WO2004US33136 20041006
US20050188242 20050722

Probable Assignee: DOSHI PRAFUL

Assignee(s): (std): BENTLEY PHILIP ; BENTLEY PHILIP GARETH ; BENTLY PHILIP ; DOSHI PRAFUL ; FOX JAMES ; DALTON HANANIAH J ; DALTON HANANIAH ; PRAFUL DOSHI ; FOX JAMES EDWARD ; PATEL JAGVI RAMESH ; PATEL JAGVI ; KULKARNI CHIDAMBAR L ; HALBE STEPHEN D ; KULKARNI CHIDAMBAR ; HALBE STEVEN ; HALBE STEPHEN

Assignee(s): FOX JAMES43 COWPER ROADCAMBRIDGESHIRECB1 3SLCAMBRIDGEGB ; PATEL JAGVI39 BARKWAY STREETHERTFORDSHIRESG8 9EEROYSTONGB ; HALBE STEPHEN7720 PARKDALE PLACESAN DIEGOCA92126US ; KULKARNI CHIDAMBAR5141 MONTESSA STREETSAN DIEGOCA92124US ; STEVEN HALBE ; XENNIA TECHNOLOGY LTD ; LEO LENS TECHNOLOGY INC ; PATEL JAGVI R ; FOX JAMES E ; DOSHI PRAFUL12628 BROOKSTONE COURTPOWAYCA92064US ; DALTON HANANIAH3349 DORCHESTER DRIVESAN DIEGOCA92123US ; JAMES FOX ; PHILIP BENTLY ; JAGVI PATEL ; HANANIAH DALTON ; CHIDAMBAR KULKARNI ; COOPERVISION INC ; BENTLEY PHILIP138 BRAMPTON ROADCAMBRIDGESHIRECB1 3HLCAMBRIDGEGB ; BENTLEY PHILIP G

Inventor(s): (std): DOSHI PRAFUL ; FOX JAMES ; BENTLY PHILIP ; PATEL JAGVI ; FOX JAMES E ; BENTLEY PHILIP G ; PATEL JAGVI R ; KULKARNI CHIDAMBAR L ; HALBE STEPHEN D ; DALTON HANANIAH J ; PRAFUL DOSHI ; BENTLEY PHILIP ; HALBE STEPHEN ; PATEL JAGVI RAMESH ; BENTLEY PHILIP GARETH ; FOX JAMES EDWARD ; DALTON HANANIAH ; HALBE STEVEN ; KULKARNI CHIDAMBAR

Inventor(s): STEVEN HALBE ; JAMES FOX ; PHILIP BENTLY ; JAGVI PATEL ; HANANIAH DALTON ; CHIDAMBAR KULKARNI ; DALTON HANANIAH3349 DORCHESTER DRIVESAN DIEGOCA92123US ; DOSHI PRAFUL12628 BROOKSTONE COURTPOWAYCA92064US ; KULKARNI CHIDAMBAR5141 MONTESSA STREETSAN DIEGOCA92124US ; HALBE STEPHEN7720 PARKDALE PLACESAN DIEGOCA92126US ; PATEL JAGVI39 BARKWAY STREETHERTFORDSHIRESG8 9EEROYSTONGB ; FOX JAMES43 COWPER ROADCAMBRIDGESHIRECB1 3SLCAMBRIDGEGB ; BENTLEY PHILIP138 BRAMPTON ROADCAMBRIDGESHIRECB1 3HLCAMBRIDGEGB

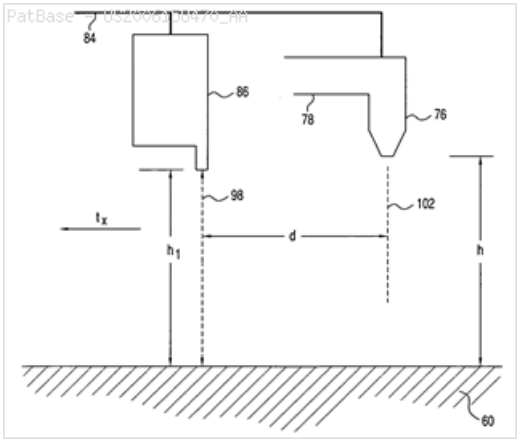
Agent(s): K AND L GATES; MIDDLETONS LAWYERS; MIDDLETONS; RIDOUT AND MAYBEE LLP; DAVID R PRESTON AND ASSOCIATES APC; DAVID P PRESTON AND ASSOCIATES APC; PRESTON DAVID; DAVID; DAVID R; DAVID R PRESTON AND ASSOCIATES

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

198) Family number: 33122647 (US2006158470A)

Title: PRINTABLE ELECTRONIC FEATURES ON NON-UNIFORM SUBSTRATE AND PROCESSES FOR MAKING SAME

Abstract: A system and process for compensating for non-uniform surfaces of a substrate when direct printing traces is provided. The system and process provided herein measures the surface of a substrate and can determine whether the surface is substantially flat, rises or falls, or whether a mesa or valley is encountered. Depending on the surface feature (i.e., mesa, valley, falling or rising surface), the direct printing system can change the frequency of the printing timing signal, advance or retard the print timing signal, advance or retard the print data, or make repeated passes over certain areas. In addition, the process disclosed herein can determine whether two, three or all of the aforementioned steps for compensating for non-uniform substrates should be combined to most effectively and efficiently print on the non-uniform surface of the substrate as intended.



Classifications:
International (IPC 8-9): B01D61/14 B01J13/02 B41J2/16 C09D11/02 C22B3/16 H05K3/46 A61K9/14 B05D1/36 B05D3/00 B05D5/12 B22F1/00 B22F9/18 B22F9/24 B22F9/30 B32B18/00 B32B3/00 B41J2/01 B41J25/308 B41J29/38 B41J29/393 B41J3/407 B41M3/14 B42D15/00 B42D15/10 C09D11/00 C09D5/10 C22B3/00 G01D11/00 G02B5/18 G02B5/32 G06F17/50 G09F3/02 H01B1/22 H01L21/00 H01L21/31 H01L21/44 H01L21/469 H01L21/48 H01L23/48 H03K17/693 H05K1/00 H05K1/09 H05K1/14 H05K1/16 H05K3/12 H05K3/38 (Advanced/Invention);
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B41J2/01 (Core/Non-invention);
B42D (Subclass/Invention)
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Family:

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AU2006204813 AA	20060720	AU20060204813	20060113
CA2594806 AA	20070712	CA20062594806	20060113
CA2594806 C	20150602	CA20062594806	20060113
CN101102905 A	20080109	CN200680002332	20060113
CN101102905 B	20110112	CN200680002332	20060113
EP1791702 A2	20070606	EP20060718387	20060113
EP1791702 B1	20101020	EP20060718387	20060113
EP1791702 B9	20110914	EP20060718387	20060113
IN03087CN2007 A	20070907	IN2007CN03087	20070712
JP2008526575 T2	20080724	JP20070551413T	20060113
KR20070097500 A	20071004	KR20077016014	20070713
TW200640596 A	20061201	TW20060101355	20060113
TW200642785 A	20061216	TW20060101367	20060113
US2006158470 AA	20060720	US20060331190	20060113
US2006158478 AA	20060720	US20060331188	20060113
US2006158497 AA	20060720	US20060331237	20060113
US2006159603 AA	20060720	US20060331238	20060113
US2006159838 AA	20060720	US20060331185	20060113
US2006159899 AA	20060720	US20060331187	20060113
US2006160373 AA	20060720	US20060331239	20060113
US2006163744 AA	20060727	US20060331231	20060113
US2006176350 AA	20060810	US20060331186	20060113
US2006189113 AA	20060824	US20060331211	20060113
US2006190917 AA	20060824	US20060331189	20060113
US2006190918 AA	20060824	US20060331191	20060113
US2007034052 AA	20070215	US20060331230	20060113

US2007190298 AA	20070816	US20060331233	20060113
US2008008822 AA	20080110	US20070773665	20070705
US2008034921 AA	20080214	US20070755720	20070530
US7533361 BB	20090512	US20060331191	20060113
US7575621 BB	20090818	US20060331238	20060113
US7749299 BB	20100706	US20060331230	20060113
US7824466 BB	20101102	US20070755720	20070530
US8167393 BB	20120501	US20060331190	20060113
US8334464 BB	20121218	US20060331187	20060113
WO06076603 A2	20060720	WO2006US01291	20060113
WO06076603 A3	20061116	WO2006US01291	20060113
WO06076604 A2	20060720	WO2006US01292	20060113
WO06076604 A3	20060921	WO2006US01292	20060113
WO06076605 A2	20060720	WO2006US01293	20060113
WO06076605 A3	20061123	WO2006US01293	20060113
WO06076606 A2	20060720	WO2006US01294	20060113
WO06076606 A3	20061102	WO2006US01294	20060113
WO06076607 A1	20060720	WO2006US01295	20060113
WO06076608 A2	20060720	WO2006US01296	20060113
WO06076608 A3	20061109	WO2006US01296	20060113
WO06076609 A2	20060720	WO2006US01297	20060113
WO06076609 A3	20061130	WO2006US01297	20060113
WO06076610 A2	20060720	WO2006US01298	20060113
WO06076610 A3	20061102	WO2006US01298	20060113
WO06076611 A2	20060720	WO2006US01299	20060113
WO06076611 A3	20070301	WO2006US01299	20060113
WO06076612 A2	20060720	WO2006US01300	20060113
WO06076612 A3	20070315	WO2006US01300	20060113
WO06076613 A2	20060720	WO2006US01301	20060113
WO06076613 A3	20070201	WO2006US01301	20060113
WO06076614 A1	20060720	WO2006US01302	20060113
WO06076615 A1	20060720	WO2006US01303	20060113
WO06076616 A2	20060720	WO2006US01304	20060113
WO06076616 A3	20061228	WO2006US01304	20060113
WO08151066 A1	20081211	WO2008US65398	20080530
ZA200701495 A	20080827	ZA20070001495	20070220

Priority:

US20010327621P 20011005 US20010338797P 20011102 US20020265295 20021004
US20050643577 20050114 US20050643577P 20050114 US20050643578P 20050114
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Probable Assignee: CABOT CORP

Assignee(s): (std): CARUSO JAMES ; EDAWRDS CHUCK ; EDWARD CHUCK ; EDWARDS CHUCK ; EINHORN RICHARD ANTHONY ; HAMPDEN SMITH MARK ; HOWARTH JAMES J ; HOWARTH JAMES JOHN ; HOWARTH JAMES ; KUNZE KLAUS ; KIM HYUNGRAK ; JAMES ANTHONY ; KODAS TOIVO ; HAUBRICH SCOTT ; KOWALSKI MARK ; KOWALSKI MARK H ; HAUBRICH SCOTT JAMES ; JAMES ANTHONY R ; HAMPDEN SMITH MARK J ; KODAS TOIVO T ; HAUBRICH SCOTT THOMAS ; HARDMAN NED JAY ; KORNBREKKE RALPH E ; HAUBRICH SCOTT T ; VANHEUSDEN KAREL ; STUMP AARON ; SCHULT ALLEN ; STUMP AARON D ; SCHULT ALLEN B ; SHAH JAINISHA R ; STOTT NATHAN E ; BHATIA RIMPLE ; CABOT CORP

Assignee(s): CABOT CORP1300 - TWO SEAPORT LANEBOSTONMA02210-2019US ; SICPA HOLDING SA

Inventor(s): (std): VANHEUSDEN KAREL ; EDWARDS CHUCK ; HOWARTH JAMES J ; KIM HYUNGRAK ; STUMP AARON D ; SCHULT ALLEN B ; HAMPDEN SMITH MARK J ; JAMES ANTHONY R ; CARUSO JAMES ; KODAS TOIVO T ; HAUBRICH SCOTT T ; KOWALSKI MARK H ; HOWARTH JAMES JOHN ; HOWARTH JAMES ; KUNZE KLAUS ; STUMP AARON ; SCHULT ALLEN ; HAMPDEN SMITH MARK ; JAMES ANTHONY ; KODAS TOIVO ; HAUBRICH SCOTT ; KOWALSKI MARK ; EDWARD CHUCK ; HAUBRICH SCOTT JAMES ; HAUBRICH SCOTT THOMAS ; EINHORN RICHARD ANTHONY ; HARDMAN NED JAY ; SHAH JAINISHA R ; BHATIA RIMPLE ; KORNBREKKE RALPH E ; HARDMAN NED J ; EINHORN RICHARD A ; KIM HYUNG RAK ; STOTT NATHAN E ; THOMAS HAUBRICH SCOTT ; ANTHONY EINHORN RICHARD ; JAY HARDMAN NED ; RIMPLE BHATIA ; KIIM HYUNGRAK ; EDAWRDS CHUCK

Inventor(s): STOTT NATHAN ; KORNBREKKE RALPH EUS ; HAMPDEN SMITH MARK JUS ; BHATIA RIMPLEUS ; HAUBRICH SCOTT THOMASUS ; EINHORN RICHARD ANTHONYUS ; SHAH JAINISHA RUS ; HARDMAN NED JAYUS ; KORNBREKKE RALPH ; EINHORN RICHARD ; SHAH JAINISHA ; HARDMAN NED ; NED JAY HARDMAN ; MARK J HAMPDEN SMITH ; RICHARD ANTHONY EINHORN ; SCOTT THOMAS HAUBRICH ; JAINISHA R SHAH ; RALPH E KORNBREKKE

Agent(s): EF WELLINGTON AND CO; E F WELLINGTON AND CO; OGILVY RENAULT LLP SENCRL SRL; OSLER HOSKIN AND HARCOURT LLP; SERRAVALLE MARCO; YAMASAKI YUKUZO; AKAMATSU TOSHIAKI; SUGIYAMA NAOTO; SHIROGANE HIROSHI; JAIMES SHER ESQ CABOT CORP; CABOT CORP; PATENT ADMINISTRATOR CABOT CORP; KATTEN MUCHIN ROSENMAN LLP; JUSTIN L; WARREN JENNIFER

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

199) Family number: 31485649 (US2005058689A)

© PatBase

Title: ANTIFUNGAL PAINTS AND COATINGS

Abstract: Antifungal and antibacterial peptides, polypeptides and proteins as antifungal additives for paint and other coatings are disclosed, along with antifungal compositions, and coated surfaces with antifungal properties. Methods of using the coatings for treating and/or inhibiting growth of mold, mildew and other fungi and bacteria on objects such as building materials that are susceptible to such infestation are also disclosed.


PatBase - WO05007758_A2

WO 2005007758 PCT/US2004/021718

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Classifications:

International (IPC 8-9): A01N A01N25/00 A01N33/08 A01N37/18 A01N37/44 A01N37/46 A01N63/00 A01N63/02 A01P1/00 A01P3/00 A61F13/00 A61K31/74 A61K38/00 A61K38/08 A61K38/10 A61K47/48 B05D3/00 B05D5/00 B08B3/00 B32B3/12 B32B5/02 B65D81/00 B65D85/84 C07K14/00 C07K14/435 C07K17/00 C07K2/00 C07K5/08 C07K5/10 C07K7/00 C07K7/06 C07K7/08 C08G63/91 C08L89/00 C09D C09D133/00 C09D189/00 C09D201/00 C09D5/14 C09D5/16 C09D7/00 C09D7/12 C09J11/08 C12N C12N11/16 C12N9/00 C12N9/16 C12N9/18 C12N9/20 C12N9/48 C12N9/76 C12N9/78 C12Q1/00 C12Q1/34 C12Q1/527 C12S9/00 (Advanced/Invention); A01N33/00 A01N37/18 A01N37/44 A01N63/00 A01P1/00 A01P3/00 A61F13/00 A61K47/48 B05D3/00 C07K14/00 C07K5/00 C07K7/00 C08G63/00 C08L89/00 C09D201/00 C09D5/14 C09D5/16 C09D7/12 C09J11/00 C12N11/00 C12N9/00 C12N9/16 C12N9/48 C12N9/76 C12N9/78 (Core/Invention); A01N C09D (Subclass/Invention)

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US: 106/124.1 106/124.100S 106/15.05 106/15.050P 106/15.050S 106/18.32 106/18.320P 106/18.320P 106/18.320S 106/2 106/2P 106/4 106/4S 106/501.1 106/501.100S 134/26 134/26P 206/216 206/216S 206/524.1 206/524.100S 222/1 222/1S 424/404 424/409 424/422 424/422P 424/426 424/426P 424/78.09 424/94.2 424/94.200P 424/94.61 424/94.64 427/331 427/331S 427/352 427/352S 427/414 427/414P 428/116 428/116S 435/174 435/174S 435/18 435/183 435/183S 435/18P 435/196 435/196S 435/197 435/197S 435/198 435/198S 435/212 435/212S 435/213 435/213S 435/227 435/227S 435/264 435/264S 435/4 435/4S 442/93 442/93S 514/1.1 514/1.100P 514/12 514/16 514/17 514/18 514/2 514/2.4 514/2.400S 514/21.4 514/21.5 514/21.8 514/3.3 514/3.300P 514/3.300S 521/55 521/55P 523/122 523/122S 524/17 524/17S 524/590 525/54.1 525/54.100S 530/324 530/324S 530/326 530/326S 530/327 530/327S 530/329 530/329S 530/330 530/330S 530/331 530/331S 530/350 530/350S

Family:

Publication number	Publication date	Application number	Application date
AU2004257205 AA	20050127	AU20040257205	20040706
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EP1644452 A2	20060412	EP20040756724	20040706
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EP2431429 A3	20120627	EP20110168727	20040706
HK1083693 A1	20060707	HK20060104810	20060421
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IL173658 A0	20090211	IL20060173658	20060209
IL173658 A1	20120430	IL20040173658	20040706
IL218128 A0	20120329	IL20040218128	20040706
IL218129 A0	20120329	IL20120218129	20120215
IL218129 A1	20130930	IL20040218129	20040706
SG179021 A1	20120427	SG20120015939	20100915
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US2006141003 AA	20060629	US20060368086	20060303
US2009308277 AA	20091217	US20090543072	20090818
US2009308278 AA	20091217	US20090543172	20090818
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US8618066 BA	20131231	US20070865514	20071001
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Priority:

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US20130093347	20131129	US20130097128	20131204	US20140156007	20140115

Probable Assignee: REACTIVE SURFACES LTD LLP

Assignee(s): (std): MCDANIEL C ; MCDANIEL C STEVEN ; REACTIVE SURFACES LTD ; MCDANIEL STEVEN C ; REACTIVE SURFACES LTD LLP ; STEVEN MCDANIEL C ; REACTIVE SURFACE LTD ; RAWLINS JAMES W ; WALES MELINDA ; WILLIAMS ERIC B

Assignee(s): C MCDANIEL ; C STEVEN MCDANIEL ; STEVEN C MCDANIEL

Inventor(s): (std): WILLIAMS ERIC B ; RAWLINS JAMES W ; BRAASCH DWAINE ; WALES MELINDA ; MCDANIEL C S ; CIPI PIRRO ; RAWLINS JAMES ; WILLIAMS ERIC ; WALES MELINDA E ; CARVAJAL JUAN CARLO ; MCDANIEL C STEVEN ; MCDANIEL STEVEN C

Inventor(s): STEVEN MCDANIEL ; MCDANIEL C ; C STEVEN MCDANIEL

Agent(s): WRAYS; MARCHANT MICHAEL JOHN; ELLA CHEONG HONG KONG LTD; SPRUSON AND FERGUSON HONG KONG LTD; DEACONS; SANFORD TCOLB AND CO; C STEVEN MCDANIEL MCDANIEL AND ASSOCIATES PC; DAFFER MCDANIEL LLP; C STEVEN MCDANIEL C O DAFFER MCDANIEL LLP; RISSMAN HENDRICKS AND OLIVERIO LLP; NOVAK DRUCE CONNOLLY BOVE AND QUIGG LLP; MCDANIEL AND ASSOCIATES PC; MCDANIEL C STEVEN

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 YU ZA ZM ZW

200) Family number: 14914650 (US6696143B)

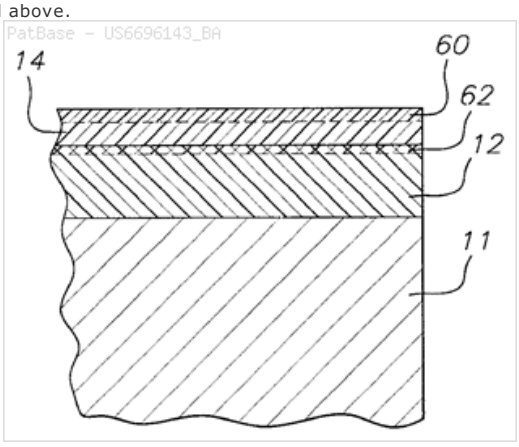
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Title: ABRASION RESISTANT COATING COMPOSITIONS, METHODS FOR MAKING THEM, AND ARTICLES COATED WITH THEM

Abstract: A coating composition includes a cured base coat of synthetic resin covered by a cured top coat of a silica-containing resin. The top coat resin is applied in an uncured state to the cured base coat. The two resins are thereafter heated to at least 140 degrees Fahrenheit, and thereafter the top coat resin is cured to produce the coating composition. A clean metal surface is coated with the coating composition by applying uncured base coat resin to the metal surface, curing the base coat resin, and thereafter applying the top coat as described above.

Classifications:

International (IPC 8-9): B05D1/36 B05D5/00 B05D7/00 B05D7/24 C08G18/10 C08G18/86 C08L33/14 C09D143/04 C09D175/04 C09D183/00 C09D183/05 C09D183/07
C09D5/00 (Advanced/Invention);
B05D1/36 B05D5/00 B05D7/24 C08L33/14 C09D175/04 C09D183/00 C09D183/05 C09D183/07 C09D5/00 (Advanced/Non-invention);
B05D1/36 B05D5/00 B05D7/00 B05D7/24 C08G18/00 C09D143/00 C09D175/04 C09D183/00 C09D183/05 C09D183/07
C09D5/00 (Core/Invention);
C08L33/00 (Core/Non-invention)
International (IPC 1-7): B05D1/36 B05D3/02 B05D7/14 B05D7/24 B32B15/08 B32B27/40 B32B7/02 C09D175/04 C09D183/00 C09D183/05 C09D183/07 C09D5/00
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European: B05D7/546 C08G18/10 C08G18/86 C09D143/04 M08L33/14
US: 428/213 428/215 428/216 428/425.5 428/425.8 428/450 428/451



Family:

Publication number	Publication date	Application number	Application date
AU200038661 A1	20001016	AU20000038661	20000303
AU200038661 A5	20001016	AU20000038661	20000303
AU778560 B2	20041209	AU20000038661	20000303
BRPI0009360 A	20020219	BR2000PI09360	20000303
CN1198691 C	20050427	CN20008007812	20000303
CN1359315 A	20020717	CN20008007812	20000303
EP1200201 A1	20020502	EP20000917732	20000303
JP2004515558 T2	20040527	JP20000607767T	20000303
KR100848656 B1	20080728	KR20017012202	20000303
KR20020007343 A	20020126	KR20017012202	20000303
US6696143 BA	20040224	US20000534101	20000323
WO0058024 A1	20001005	WO2000US05685	20000303

Priority:

US19990126587P 19990326 US19990147328P 19990805 WO2000US05685 20000303
US20000534101 20000323 WO2000US05685 20010925

Probable Assignee: LAPOINT

Assignee(s): (std): DAVID A LAPOINT ; DOVID A LAPOINT ; LAPOINT DAVID A ; LAPOINT

Assignee(s): LA POINT DAVID ; LA POINT DAVID A

Inventor(s): (std): LAPOINT DAVID A ; LA POINT DAVID A

Inventor(s): DAVID A LAPOINT

Agent(s): FB RICE; FB RICE PTY LTD; TSURUTA JUNICHI; HIGUCHI SOTOJI; ISHIDA TAKASHI; NISHIYAMA MASAYA

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

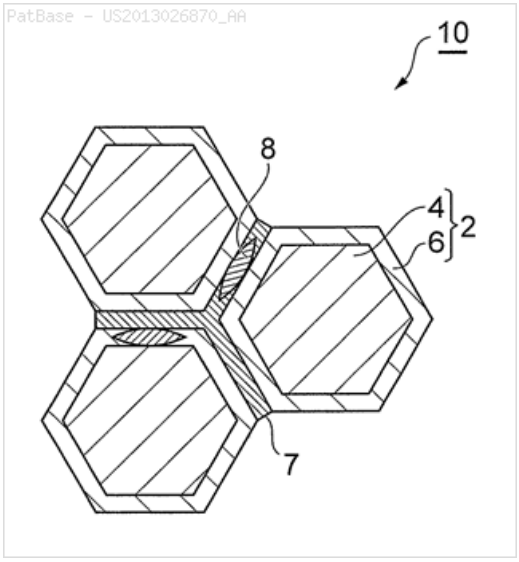
201) Family number: 49706662 (US2013026870A)

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Title: RARE EARTH SINTERED MAGNET, METHOD FOR PRODUCING THE SAME, MOTOR, AND AUTOMOBILE

Abstract: Provided is a rare earth sintered magnet 10 comprising a group of main phase grains 2 each composed of an R-T-B-based rare earth magnet comprising a core 4 and a shell 6 covering the core 4, wherein a thickness of the shell 6 is 500 nm or less, R includes a light rare earth element and a heavy rare earth element, and a Zr compound 8 is present in a grain boundary phase 7 of the group of main phase grains 2 and/or the shell 6. Also provided are a motor comprising the rare earth sintered magnet 10 and an automobile comprising the motor.

Classifications:
International (IPC 8-9): B05D5/00 B22F1/00 B22F3/00 B22F3/24 C22C38/00 C22C38/14 H01F1/053 H01F1/057 H01F1/08 H01F41/02 H01F7/02 H02K1/02 H02K15/03 H02K21/00 (Advanced/Invention); H02K15/03 H02K21/16 (Advanced/Non-invention)
CPC: H02K1/02 C22C38/005 C22C38/14 H01F1/0577 H01F41/0293 H02K21/16
European: C22C38/00E C22C38/14 H01F1/057B8C H01F41/02B10 H02K1/02 T02K21/16
US: 1/1 310/152 335/302 427/127



Family:

Publication number	Publication date	Application number	Application date
CN103098151 A	20130508	CN201180017476	20110330
CN103098151 B	20160120	CN201180017476	20110330
DE602011042932 D1	20171214	DE201160042932T	20110330
EP2555207 A1	20130206	EP20110762891	20110330
EP2555207 A4	20151216	EP20110762891	20110330
EP2555207 B1	20171101	EP20110762891	20110330
JP2011122667 A1	20130708	JP20120508363T	20110330
JP5392400 B1	20140122	JP20120508363T	20110330
JP5392400 B2	20140122	JP20120508363T	20110330
US2013026870 AA	20130131	US20110637247	20110330
US9350203 BB	20160524	US20110637247	20110330
WO11122667 A1	20111006	WO2011JP58046	20110330

Priority:

JP20100078699 20100330 EP20110762891 20110330 WO2011JP58046 20110330
JP20120508363 20110330

Probable Assignee: TDK CORP

Assignee(s): (std): BABA FUMITAKA ; ISHIZAKA CHIKARA ; IWASAKI MAKOTO ; TANAKA SATOSHI ; TDK CORP

Inventor(s): (std): BABA FUMITAKA ; IWASAKI MAKOTO ; TANAKA SATOSHI ; ISHIZAKA CHIKARA

Agent(s): EPPING HERMANN FISCHER PATENTANWALTSGESELLSCHAFT MBH; Epping Wilhelm; EPPING HERMANN FISCHER; DRINKER BIDDLE AND REATH LLP; HASEGAWA YOSHIKI 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

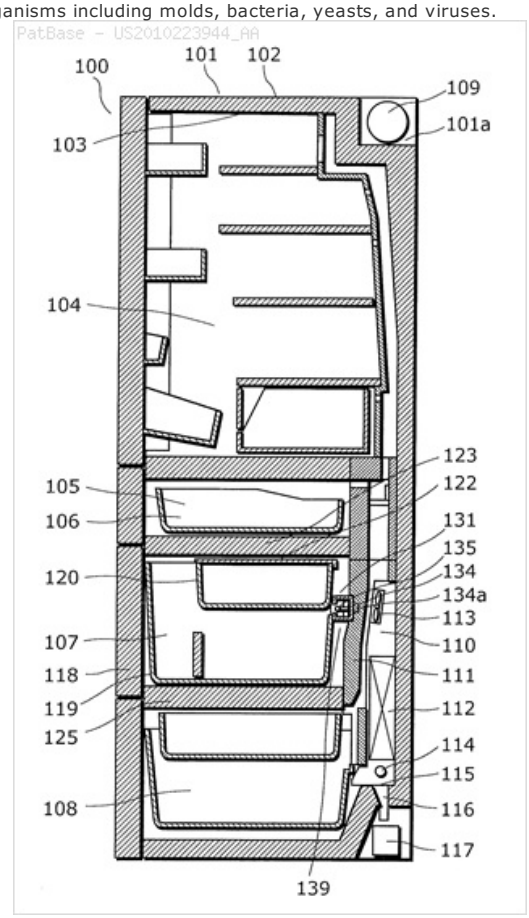
202) Family number: 43152671 (US2010223944A)

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Title: REFRIGERATOR

Abstract: To provide a refrigerator including: a heat-insulating main body; a storage compartment defined in the heat-insulating main body; and a mist spray apparatus that sprays a fine mist into the storage compartment. The fine mist generated by the mist spray apparatus has a nano-size particle diameter and reduces microorganisms adhering to the inside of the storage compartment and to vegetable surfaces, the microorganisms including molds, bacteria, yeasts, and viruses.

Classifications:
International (IPC 8-9): A23B7/00 A23B7/04 A23B7/144 B05B5/025 B05B5/057 F25B21/02 F25D11/00 F25D23/00 F25D27/00 F28D5/00 (Advanced/Invention);
A23B7/04 A23B7/144 B05B5/025 F25B21/02 F25D23/00 F25D27/00 F28D5/00 (Core/Invention)
International (IPC 1-7): F25D23/00
CPC: F25D17/042 A23B7/0433 A23B7/152 A23L3/3445 A23L3/363 B05B5/0255 B05B5/0533 B05B5/057 B05B7/0012 F25D2317/04131 F25D2317/0416 F25D2400/22 F25D2317/061 F25D25/025 F25D2317/0413
European: A23B7/04F2 A23B7/152 A23L3/3445 A23L3/36F B05B5/025A B05B5/057 F25D17/04A L05B5/053B L05B7/00B R25D317/0413 R25D317/04131 R25D317/0416 R25D400/22
US: 239/690 239/690S 62/264 62/264P 62/304 62/304S



Family:

Publication number	Publication date	Application number	Application date
AU2008310473 AA	20090416	AU20080310473	20081008
AU2008310473 AB	20100701	AU20080310473	20081008
AU2008310473 BB	20120920	AU20080310473	20081008
AU2008310473 BI	20130530	AU20080310473	20081008
BRPI0818294 A2	20151103	BR2008PI18294	20081008
CN101874185 A	20101027	CN200880110646	20081008
CN101874185 B	20140402	CN200880110646	20081008
EP2199714 A1	20100623	EP20080837068	20081008
EP2199714 A4	20110420	EP20080837068	20081008
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JP2009243782 A2	20091022	JP20080091155	20080331
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JP5298503 B2	20130925	JP20070288370	20071106
JP5342157 B2	20131113	JP20080065408	20080314
JP5386827 B2	20140115	JP20080014625	20080125
NZ584547 A	20120112	NZ20080584547	20081008
RU2010113919 A	20111120	RU20100113919	20081008

RU2473025 C2	20130120	RU20100113919	20081008
US2010223944 AA	20100909	US20080682169	20081008
WO09047896 A1	20090416	WO2008JP02837	20081008

Priority:

JP20070263116 20071009 JP20070288370 20071106 JP20070316912 20071207
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JP20080091155 20080331 WO2008JP02837 20081008 JP20130134613 20130627

Probable Assignee: PANASONIC CORP

Assignee(s): (std): MATSUSHITA ELECTRIC INDUSTRIAL CO LTD ; NAKANISHI KAZUYA ; UEDA YOSHIHIRO ; TSUJIMOTO KAHORU ; PANASONIC CORP ; ADACHI TADASHI ; KAMISAKO TOYOSHI ; MATSUSHITA ELECTRIC IND CO LTD

Assignee(s): MATSUSHITA ELECTRIC INDUSTRIAL CO ; PANASONIC ELECTRIC WORKS CO LTD ; PANASONIK KORPOREHJSHN ; PANASONIC INTELLECTUAL PROPERTY MANAGEMENT CO LTD

Inventor(s): (std): ADACHI TADASHI ; UEDA YOSHIHIRO ; TSUJIMOTO KAHORU ; NAKANISHI KAZUYA ; KAMISAKO TOYOSHI ; KAMISACO TOYOSHI ; TOYOSHI KAMISAKO ; KAZUYA NAKANISHI ; KAHORU TSUJIMOTO ; YOSHIHIRO UEDA ; TADASHI ADACHI ; KAMISAKO TOJOSI ; NAKANISI KAZUJA ; UEDA JOSIKHIRO ; TSUDZIMOTO KAKHORU ; ADATI TADASI

Agent(s): GRIFFITH HACK; EISENFUEHR SPEISER AND PARTNER; EISENFUEHR SPEISER; HAMRE SCHUMANN MUELLER AND LARSON PC; IWAHASHI FUMIO ET AL

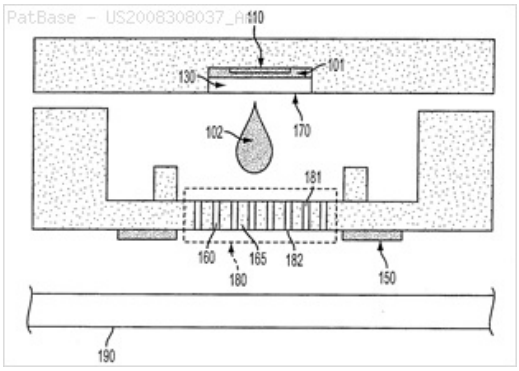
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203) Family number: 42672671 (US2008308037A)

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Title: METHOD AND APPARATUS FOR THERMAL JET PRINTING

Abstract: The disclosure relates to a method for depositing films on a substrate which may form part of an LED or other types of display. In one embodiment, the disclosure relates to an apparatus for depositing ink on a substrate. The apparatus includes a chamber for receiving ink; a discharge nozzle having an inlet port and an outlet port, the discharge nozzle receiving a quantity of ink from the chamber at the inlet port and dispensing the quantity of ink from the outlet port; and a dispenser for metering the quantity of ink from the chamber to the inlet port of the discharge nozzle; wherein the chamber receives ink in liquid form having a plurality of suspended particles and the quantity of ink is pulsatingly metered from the chamber to the discharge nozzle; and the discharge nozzle evaporates the carrier liquid and deposits the solid particles on the substrate.



Classifications:

International (IPC 8-9): B05B17/00 B05B5/025 B05B7/06 B05B7/16 B05C1/00 B05C11/00 B05C13/02 B05C19/04 B05C5/00 B05C5/02 B05C5/04 B05C9/10 B05C9/14 B05D1/12 B05D1/26 B05D1/32 B05D1/36 B05D3/00 B05D5/00 B05D5/06 B41J11/00 B41J2/005 B41J2/01 B41J2/015 B41J2/04 B41J2/045 B41J2/05 B41J2/07 B41J2/135 B41J2/14 B41J2/165 B41J2/175 B41J2/315 B41J2/32 B41J2/435 B41J2/475 B41J29/38 B41J29/393 B41M1/40 B41M5/00 B41M5/382 B41N1/16 C23C14/24 C23C4/137 G02F1/1335 H01J9/227 H01L21/288 H01L33/00 H01L51/00 H01L51/50 H01L51/56 H05B33/00 H05B33/10 H05K3/12 (Advanced/Invention);
B05B17/00 B05C13/02 B05D5/00 B41J2/07 B41J2/135 B41J2/14 B41J2/175 B41J29/393 H01L51/00 H01L51/50 H01L51/56 H05B33/10 (Advanced/Non-invention);
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B05D1/26 B41J2/05 B41J2/07 B41J2/14 B41J2/175 H01L51/50 H01L51/56 (Core/Non-invention)

CPC: B41J2/0057 B41F16/00 B41M3/003 H01L51/001 B41J2/0456 B41J2/04565 B41J2/0458 B41J2/0459 B41J2/195 B41J2/2142 B41J3/407 B41J2/04581 B41J2/07 B41J2/435 B41J2/04588 B41J2/175 B05B17/0638 B41J2/14 B41J11/0015 B41J29/393 B41J2202/09 B41J2202/16 B41M5/0011 B05C13/02 B05D5/00 B41J2/015 H01L21/67784 H01L51/0005 H01L51/56 H05B33/10 H01L33/005 B05B17/0646 B05C5/0208 B05C15/00 B41J2/16505 B41J2/315 C23C4/137

European: B05B17/06B5 B41F16/00 B41J11/00C B41J2/005T B41J2/045D45 B41J2/045D48 B41J2/045D57 B41J2/045D63 B41J2/14 B41J2/175 B41J2/195 B41J2/21D3 B41J29/393 B41J3/407 B41M3/00F B41M5/00D H01L51/00A2B2B L05B17/06B5 L41J202/09 L41J202/16 T01L51/00A2B2B T01L51/00A2D4 T01L51/56

US: 1/1 118/200 118/200S 118/264 118/264S 118/300 118/300 118/300S 118/302 118/308 118/313 118/315 118/50 118/500 118/620 118/620S 118/668 118/668S 118/679 118/680 118/681 118/686 118/696 118/696S 118/697 118/697S 118/722 118/75 118/75S 347/1 347/10 347/104 347/105 347/108 347/10P 347/12 347/12P 347/13 347/14 347/14S 347/17 347/17P 347/20 347/20P 347/29 347/4 347/40 347/40S 347/44 347/44S 347/47 347/47S 347/54 347/56 347/56P 347/6 347/68 347/6P 347/8 347/85 347/85S 347/9 347/97 347/9P 427/197 427/197P 427/261 427/287 427/294 427/448 427/466 427/466P 427/600 427/66 427/66P 445/73

Family:

Publication number	Publication date	Application number	Application date
CA2690388 AA	20081224	CA20082690388	20080613
CA2690392 AA	20081224	CA20082690392	20080613
CA2690396 AA	20081224	CA20082690396	20080613
CN101743125 A	20100616	CN200880019990	20080613
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CN101754859 A	20100623	CN200880020197	20080613
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CN102271922 A	20111207	CN201080004035	20100105
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CN102632710 A	20120815	CN201210080898	20080613
CN103229325 A	20130731	CN201180002330	20110702
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EP2155493 A1	20100224	EP20080771068	20080613

EP2155493 A4	20100811	EP20080771068	20080613
EP2155494 A1	20100224	EP20080771084	20080613
EP2155494 A4	20100811	EP20080771084	20080613
EP2155496 A2	20100224	EP20080771094	20080613
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EP2376288 A2	20111019	EP20100726847	20100105
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KR20140018897 A	20140213	KR20137023881	20110702
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TW200950979 A	20091216	TW20080142490	20081104
TW201302495 A	20130116	TW20120108267	20120315
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TWI546004 B	20160811	TW20120122722	20120626
US2008308037 AA	20081218	US20080139409	20080613
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WO08157395 A1	20081224	WO2008US66975	20080613
WO08157410 A1	20081224	WO2008US66991	20080613
WO08157420 A2	20081224	WO2008US67002	20080613
WO08157420 A3	20090219	WO2008US67002	20080613
WO10078587 A2	20100708	WO2010US20144	20100105
WO10078587 A3	20101028	WO2010US20144	20100105
WO11075299 A1	20110623	WO2010US58145	20101129
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WO12138366 A1	20121011	WO2011US42888	20110702

Priority:

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Probable Assignee: MASSACHUSETTS INST OF TECHNOLOGY

Assignee(s): (std): BIRANG MANUSH ; BUCHNER CHRISTOPHER ; BULOVIC VLADIMIR ; CHEN JIANGLONG ; GASSEND VALERIE ; GOLDA DARIUSZ ; HYEUN SU KIM ; INST OF TECHNOLOGY MASSACHUSETTS ; KATEEVA INC ; MASSACHUSETTS INST TECHNOLOGY ; MADIGAN CONOR FRANCIS ; SCHMIDT MARTIN A ; VRONSKY ELIYAHU ; MADIGAN CONOR ; MADIGAN CONNOR F ; KIM HYEUN SU ; KO ALEXANDER SOU KANG ; SOMEKH SASS ; LOWRANCE ROBERT B ; MADIGAN CONOR F ; SOU KANG KO ALEXANDER

Assignee(s): OF TECHNOLOGY MASSACHUSETTS INST ; MASSACHUSETTS INST OF TECHNOLOGY ; NATIONAL SCIENCE FOUNDATION ; MASSACHUSETTS INST ; MASSACHUSETTS INSTITUTE OF TECHNOLOGY ; EAST WEST BANK

Inventor(s): (std): MADIGAN CONOR FRANCIS ; CHEN JIANGLONG ; BULOVIC VLADIMIR ; SCHMIDT MARTIN A ; MADIGAN CONOR ; MADIGAN CONOR F ; MADIGAN CONNOR F ; GASSEND VALERIE ; VRONSKY ELIYAHU ; SOMEKH SASS ; VLADIMIR BULOVIC ; JIANGLONG CHEN ; FRANCIS MADIGAN CONOR ; CHEN JIANG LONG ; BUCHNER CHRISTOPHER ; LOWRANCE ROBERT B ; KO ALEXANDER SOU KANG ; GOLDA DARIUSZ ; BIRANG MANUSH ; KIM HYEUN SU ; HYEUN SU KIM ; SOU KANG KO ALEXANDER ; MANUSH BIRANG ; DARIUSZ GOLDA ; ELIYAHU VRONSKY ; ALEXANDER SOU KANG KO ; VALERIE GASSEND

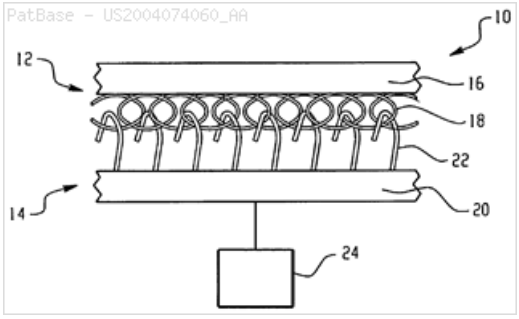
Agent(s): LIESEGANG EVA; SNELL AND WILMER LLP (OC); SNELL AND WILMER LLP; DIANOOSH SALEHI SNELL AND WILMER LLP; THE SALEHI LAW GROUP; SALEHI LAW GROUP; JEFFERY D; SALEHI DIANOOSH; FRAZIER JEFFERY ET AL; SALEHID DIANOOSH; FRAZIER JEFFERY D ET AL

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

204) Family number: 30498673 (US2004074060A) © PatBase

Title: RELEASABLE FASTENER SYSTEM

Abstract: A releasable fastener system comprises a loop portion and a hook portion. The loop portion includes a support and a loop material disposed on one side thereof whereas the hook portion includes a support and a plurality of closely spaced upstanding hook elements extending from one side thereof. When the hook portion and loop portion are pressed together they interlock to form a releasable engagement. The resulting joint created by the engagement is relatively resistant to shear and pull forces and weak in peel strength forces. The hook elements are formed of a material or have configurations that provide a shape changing capability and/or change in flexural modulus property to the hook elements. In this manner, the shape and/or flexural modulus of the hook elements can be remotely changed to provide a reduction in the shear and/or pull-off forces.



Classifications:
International (IPC 8-9): A44B18/00 A44B21/00 A44B99/00 B23P19/04 B64C33/02 F16B1/00 F16B1/02 F16B2/02 F16B5/00 F16B5/07 F16F1/36 F16F9/53 H02N2/00 (Advanced/Invention); A44B18/00 A44B99/00 B23P19/04 B64C33/00 F16B1/00 F16B5/00 H02N2/00 (Core/Invention)
International (IPC 1-7): A44B18/00 A44B18/10 A44B21/00 A44B21/10 B05D1/02 B29C33/38 B29C41/30 B32B3/02 B32B3/06 B44B18/00 B44B21/00 F16B1/00 F16B1/02 F16B2/02 F16B5/07 F16F9/53 H01F21/00 H01L41/08 H02N2/00
CPC: Y10S24/44 Y10T24/27 Y10T24/2733 Y10T24/2742 Y10T24/2792 Y10T24/32 Y10T24/33 Y10T24/45482 Y10T428/24017 Y10T24/2775 Y10T24/2783 Y10T24/2758 Y10T29/49821 F16B5/00 F16F1/3605 Y10T24/45461 Y10T24/45466 Y10T24/45471 Y10T403/21 Y10T403/77 B64C33/02 C08L2201/12 F16B1/0014 F16B2001/0028 F16B2001/0035 F16F2224/045 H01L41/12 H01L41/20 A44B18/0061 F16B5/07 A44B18/0096 A44B18/0003 A41D2300/326 A44B18/0007 A44D2203/00
European: A44B18/00C A44B18/00C2 A44B18/00G14 B64C33/02 F16B1/00B F16B5/00 F16B5/07 F16F1/36B K41D300/326 K44D203/00 M08L201/12 R16B1/00D R16B1/00F R16F224/04M
US: 188/267 24/303 24/303S 24/304 24/442 24/442P 24/445 24/446 24/448 24/450 24/451 24/452 24/602 24/603 24/604 24/606 24/DIG.44 244/99.11 244/99.3 267/140.14 267/140.15 29/426.4 310/328 310/328P 310/331 310/332 403/28 403/410 428/100

Family:

Publication number	Publication date	Application number	Application date
AU2003297750 AA	20040810	AU20030297750	20031208
DE10355069 A1	20040609	DE20031055069	20031125
DE10355069 B4	20090108	DE20031055069	20031125
DE60301192 D1	20050908	DE20036001192	20031028
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DE60301192 T2	20060601	DE20036001192T	20031028
DE60313272 D1	20070531	DE20036013272	20030922
DE60313272 D1	20070531	DE20036013272T	20030922
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DE60319881 D1	20080430	DE20036019881	20031208
DE60319881 D1	20080430	DE20036019881T	20031208
DE60319881 T2	20090305	DE20036019881T	20031208

DE60323317 D1	20081016	DE20036023317	20031114
DE60327297 D1	20090604	DE20036027297	20031114
EP1416167 A1	20040506	EP20030021371	20030922
EP1416167 B1	20070418	EP20030021371	20030922
EP1422439 A1	20040526	EP20030024697	20031028
EP1422439 B1	20050803	EP20030024697	20031028
EP1424022 A2	20040602	EP20030026258	20031114
EP1424022 A3	20050803	EP20030026258	20031114
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EP1424023 A3	20050803	EP20030026259	20031114
EP1424023 B1	20080903	EP20030026259	20031114
EP1426628 A1	20040609	EP20030025322	20031103
EP1426629 A2	20040609	EP20030025435	20031105
EP1426629 A3	20060607	EP20030025435	20031105
EP1426630 A1	20040609	EP20030025436	20031105
EP1589846 A1	20051102	EP20030796817	20031208
EP1589846 A4	20070207	EP20030796817	20031208
EP1589846 B1	20080319	EP20030796817	20031208
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JP2004148115 A2	20040527	JP20030359214	20031020
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JP4015983 B2	20071128	JP20030358235	20031017
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US7140081 BB	20061128	US20030358997	20030205
US7146690 BB	20061212	US20020305375	20021126
US7200902 BB	20070410	US20020273691	20021019
US7308738 BB	20071218	US20030337238	20030106
US7430788 BB	20081007	US20060393318	20060330
WO04062416 A1	20040729	WO2003US39024	20031208

Priority:

US20020273691 20021019 US20020304089 20021125 US20020305375 20021126
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Probable Assignee: GM GLOBAL TECHNOLOGY OPERATIONS LLC

Assignee(s): (std)**:** GEN MOTORS CORP ; WANG PEI CHUNG ; GENERAL MOTORS CORP

Assignee(s): GM GLOBAL TECHNOLOGY OPERATIONS INC ; GENERAL MOTORS CORP N D GES D STAATES DELAWARE ; ULICNY JOHN C ; GOLDEN MARK A ; UNITED STATES DEPARTMENT OF TREASURY ; UAW RETIREE MEDICAL BENEFITS TRUST ; POWELL BOB ROSS ; STANFORD THOMAS B ; NI WANGYANG ; JOHNSON NANCY L ; MOMODA LESLIE A ; NAMUDURI CHANDRA SEKHAR ; OTTAVIANI ROBERT A ; POWELL BOB R ; WILMINGTON TRUST CO ; GENERAL MOTORS CORP GM ; CITICORP USA INC AGENT FOR HEDGE PRIORITY SECURED ; GM GLOBAL TECHNOLOGY OPERATIONS LLC ; GENERAL MOTORS CORP DETROIT ; GENERAL MOTORS CORP N D GES D STAATES DELAWARE DETROIT ; CITICORP USA INC AGENT FOR HEDGE PRIORITY SECURED PARTIES AS ; GENERAL MOTORS CORP NDGESD STAATES DELAWARE DETROIT ; GENERAL MOTORS CORP NDGESD STAATES DELAWARE ; BARVOSA CARTER WILLIAM ; BROWNE ALAN L ; BROWNE ALAN LAMPE ; CHENG YANG TSE ; CITICORP USA INC ; CITICORP USA INC AGENT FOR BANK PRIORITY SECURED P ; CITICORP USA INC AGENT FOR BANK PRIORITY SECURED PARTIES AS ; GENERAL MOTORS CORPORATIOM

Inventor(s): (std)**:** BROWNE ALAN LAMPE ; JOHNSON NANCY L ; OTTAVIANI ROBERT A ; ULICNY JOHN C ; GOLDEN MARK

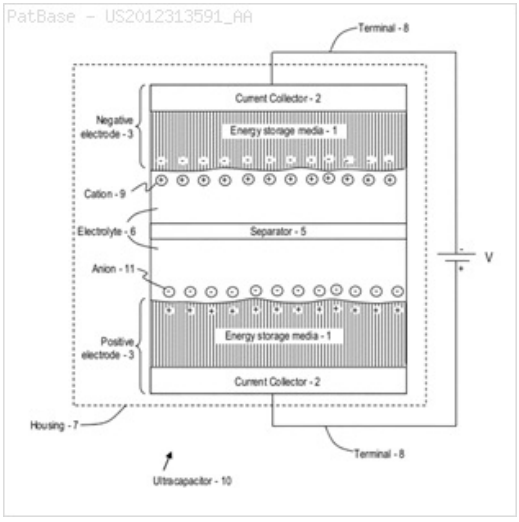
	A ; STANFORD THOMAS B ; BROWNE ALAN L ; MOMODA LESLIE A ; BARVOSA CARTER WILLIAM ; POWELL BOB R ; POWELL BOB ROSS ; CHENG YANG TSE ; NI WANGYANG ; NAMUDURI CHANDRA SEKHAR ; STANFORD THOMAS B JR ; POWELL BOB R JR ; ULICNY JOHN ; POWELL JR BOB R ; STANFORD JR THOMAS B ; THOMAS B STANFORD ; WILLIAM BARVOSA CARTER ; NANCY L JOHNSON ; LESLIE A MOMODA ; ALAN L BROWNE
Inventor(s):	OTTAVIANI ROBERT ; GOLDEN MARK ; STANFORD ; JR THOMAS B ; POWELL ; JR BOB R
Agent(s):	MANITZ FINSTERWALD AND PARTNER GBR; SHAMOTO ICHIO; CHIBA AKIO; MASUI CHUJI; KOBAYASHI YASUSHI; TOMITA HIROYUKI; MIYAMAE TORU; TAKEUCHI SHIGEO; HOSHINO OSAMU; KATHRYN A MARRA GENERAL MOTORS CORP; KATHRYN A; MARRA KATHRYN A
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 ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

205) Family number: 52545674 (US2012313591A)

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Title: ENERGY STORAGE MEDIA FOR ULTRACAPACITORS

Abstract: An ultracapacitor includes at least one electrode that includes carbon nanotubes. The carbon nanotubes may be applied in a variety of ways, and a plurality of layers may be included. Methods of fabrication of carbon nanotubes and ultracapacitors are provided.



Classifications:
International (IPC 8-9): B01F11/02 B01J19/00 B01J19/22 B05D5/12 B23K20/10 B23K26/20 B23K9/00 B32B37/00 B32B37/06 B32B37/14 B32B38/10 B82Y30/00 B82Y40/00 B82Y99/00 C01B31/02 C01B32/158 C01B32/16 C01B32/162 C01B32/164 C01B32/168 C23C14/34 C23C14/35 C23C14/48 C30B25/00 C30B29/02 C30B29/66 D01F9/12 E21B4/04 E21B41/00 G01R31/00 H01G H01G11/00 H01G11/14 H01G11/18 H01G11/20 H01G11/28 H01G11/30 H01G11/32 H01G11/34 H01G11/36 H01G11/40 H01G11/52 H01G11/54 H01G11/58 H01G11/60 H01G11/62 H01G11/68 H01G11/70 H01G11/74 H01G11/78 H01G11/80 H01G11/82 H01G11/84 H01G11/86 H01G2/10 H01G9/00 H01G9/035 H01G9/058 H01G9/06 H01G9/10 H01G9/15 H01G9/155 H01G9/20 H01M10/052 H01M10/0568 H01M10/39 H01M12/08 H01M2/02 H01M2/04 H01M2/06 H01M2/08 H01M2/26 H01M2/30 H01M4/583 H01M6/00 H01M6/14 H02J1/00 H02J15/00 H02J7/00 H02J7/34 H02K35/00 H02M1/14 H02M3/335 H02M7/12 H02M7/48 H02N11/00 H02N2/18 H1G9/00 H1G9/10 H1M2/02 H1M2/04 H1M2/30 (Advanced/Invention);
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Family:

Publication number	Publication date	Application number	Application date
AU2012267770 AA	20121213	AU20120267770	20120607
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AU2013222120 AA	20130829	AU20130222120	20130225
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AU2017201902 AA	20170427	AU20170201902	20170321
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AU2019202805 AA	20190516	AU20190202805	20190422
BR112014000377 A2	20170613	BR20141100377	20120709
BR112014000377 A2	20171017	BR20141100377	20120709
CA2838557 AA	20131205	CA20122838557	20120607
CA2841171 AA	20140107	CA20122841171	20120709
CA2843137 AA	20140124	CA20122843137	20120719
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CN104115247 A	20141022	CN201280046688	20120719
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CN104221110 A	20141217	CN201280043590	20120709
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CN104246942 A	20141224	CN201380022019	20130225
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CN108123168 A	20180605	CN201711274660	20120719
CN109903995 A	20190618	CN201910159219	20120709
CN110233063 A	20190913	CN201910288116	20130225
EA033199 B1	20190930	EA20140090232	20120709
EA201490232 A1	20140630	EA20140090232	20120709
EA201490346 A1	20150227	EA20140090346	20120719

EP2718945 A2	20140416	EP20120796013	20120607
EP2718945 A4	20150422	EP20120796013	20120607
EP2729948 A2	20140514	EP20120810706	20120709
EP2729948 A4	20150304	EP20120810706	20120709
EP2737502 A1	20140604	EP20120817809	20120719
EP2737502 A4	20150812	EP20120817809	20120719
EP2817810 A1	20141231	EP20130751667	20130225
EP2817810 A4	20151021	EP20130751667	20130225
IL229808 A0	20140227	IL20120229808	20120607
IL229808 A1	20191031	IL20120229808	20120607
IL230351 A0	20140227	IL20120230351	20120709
IL230351 A1	20191031	IL20120230351	20120709
IL234232 A0	20141030	IL20130234232	20130225
JP2014523841 T2	20140918	JP20140514859T	20120607
JP2014524146 T2	20140918	JP20140519102T	20120709
JP2014531531 T2	20141127	JP20140522894T	20120719
JP2015515741 T2	20150528	JP20140558934T	20130225
JP2017137754 A2	20170810	JP20170023285	20170210
JP2017152733 A2	20170831	JP20170092982	20170509
JP2018131381 A2	20180823	JP20180045648	20180313
JP6093354 B2	20170308	JP20140522894T	20120719
KR20140073485 A	20140616	KR20147003477	20120709
KR20140129283 A	20141106	KR20147026833	20130225
US2012313591 AA	20121213	US20120491593	20120607
US2013026978 AA	20130131	US20120553716	20120719
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US2013044405 AA	20130221	US20120587037	20120816
US2013045157 AA	20130221	US20120588452	20120817
US2013143108 AA	20130606	US20120681081	20121119
US2014042988 AA	20140213	US20130776603	20130225
US2015002987 AA	20150101	US20120131666	20120709
US2015279578 AA	20151001	US20150679393	20150406
US2015287961 AA	20151008	US20150594391	20150112
US2017316889 AA	20171102	US20160376618	20161212
US8932750 BB	20150113	US20120560628	20120727
US9001495 BB	20150407	US20120587037	20120816
US9017634 BB	20150428	US20120588452	20120817
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US9558894 BB	20170131	US20130776603	20130225
WO12170749 A2	20121213	WO2012US41438	20120607
WO12170749 A3	20130131	WO2012US41438	20120607
WO13009720 A2	20130117	WO2012US45994	20120709
WO13009720 A3	20130314	WO2012US45994	20120709
WO13016145 A1	20130131	WO2012US47474	20120719
WO13126915 A1	20130829	WO2013US27697	20130225

Priority:

US20110602121P 20110223	US20110494164P 20110607	US20110505715P 20110708
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Probable Assignee: FASTCAP SYSTEMS CORP

Assignee(s): (std): BRAMBILLA NICOL MICHELE ; BRAMBILLA NICOLO M ; BRAMBILLA NICOLO MICHELE ; COOLEY JOHN J ; FASTCAP SYSTEMS CORP ; COOLEY JOHN JACOB ; EPSTEIN JAMES ; DEANE CHRISTOPHER JOHN SIBBALD ; DEANE CHRISTOPHER JS ; DEANE CHRISTOPHER J S ; CORRIPIO LUNA OSCAR ENRIQUE ; FASTCAP SYSEMS CORP ; SIGNORELLI RICCARDO ; RAMACHANDRA KAVYA ; KUTTIPILLAI PADMANABAN SASTHAN ; MARTINI FABRIZIO ; SASTHAN KUTTIPILLAI PADMANABAN ; LANE JOSEPH ; LANE JOSEPH K ; WILHELMUS LINDSAY A

Assignee(s): WINDSAIL CREDIT FUND LP ADMINISTRATIVE AGENT AS ; US DEPARTMENT OF ENERGY ; WINDSAIL CREDIT FUND LP AGENT AS ; FASTCAP SYSTEMS CORP21 DRYDOCK AVENUE8TH FLOOR EASTBOSTONMA02210US

Inventor(s): (std): KUTTIPILLAI PADMANABAN SASTHAN ; COOLEY JOHN JACOB ; EPSTEIN JAMES ; DEANE CHRISTOPHER JOHN SIBBALD ; MARTINI FABRIZIO ; JOSEPH LANE ; NICOLO MICHELE BRAMBILLA ; KAVYA RAMACHANDRA ; CHRISTOPHER JOHN SIBBALD DEANE ; FABRIZIO MARTINI ; JOHN JACOB COOLEY ; RICCARDO SIGNORELLI ; PADMANABAN SASTHAN KUTTIPILLAI ; JAMES EPSTEIN ; CORRIPIO LUNA OSCAR ENRIQUE ; WILHELMUS LINDSAY A ; DEANE CHRISTOPHER JS ; LANE JOSEPH K ; LANE JOSEPH ; SASTHAN KUTTIPILLAI PADMANABAN ; BRAMBILLA NICOLO MICHELE ; DEANE CHRISTOPHER ; KUTTIPILLAI PADMANABAN ; COOLEY JOHN ; BRAMBILLA NICOL MICHELE ; COOLEY JOHN J ; DEANE CHRISTOPHER J S ; BRAMBILLA NICOLO M ; RAMACHANDRA KAVYA ; SIGNORELLI RICCARDO

Inventor(s): KUTTIPILLAI PADMANABAN SASTHANUS ; DEANE CHRISTOPHER JOHN SIBBALDUS ; EPSTEIN JAMESUS ; MARTINI FABRIZIOUS ; WILHELMUS LINDSAY AUS ; SIGNORELLI RICCARDOUS ; COOLEY JOHN JACOBUS

Agent(s): PIZZEYS PATENT AND TRADE MARK ATTORNEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; SMART AND BIGGAR; HARRISON GODDARD FOOTE LLP; BARKER ROSEMARY ANNE; WATSON CRAIG SIMON; HGF LTD; REINHOLD COHN AND PARTNERS; TAMURA YASUO; SAMEJIMA MUTSUMI; GONJOU KEIICHI; YOSHIDA TAMAKI; EMA HARUHIKO; WOLF GREENFIELD AND SACKS PC; OYER

TIMOTHY J; OYER THIMOTHY J ET AL

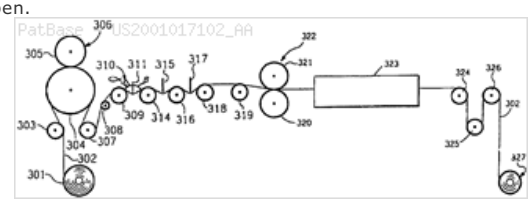
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206) Family number: 34548679 (US2001017102A)

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Title: METHOD AND APPARATUS FOR CONTROLLED PLACEMENT OF A POLYMER COMPOSITION INTO A WEB

Abstract: The present invention relates to an apparatus for controlling the placement of a curable, shear-thinnable polymer composition into a porous web. The apparatus comprises means for applying tension, means for applying the polymer composition to one surface of the tensioned web, and means for shear thinning the composition and placing it into the web to encapsulate at least some of the structural elements of the web, leaving most of the interstitial spaces open. A preferred apparatus includes one or more process heads that has mounted thereto a rigid knife blade for engagement with the web. The knife blade is movable vertically and rotationally. The process head is also movable horizontally along the path of the web. The invention also relates to an apparatus for selectively placing the polymer composition in a substantially continuous region extending through the web so that the polymer composition fills the interstitial spaces and adheres adjacent structural elements of the web in the region. In the areas of the web above and below the filled region, at least some of the structural elements are encapsulated and most of the interstitial spaces are open.



Classifications:

International (IPC 8-9): A41D31/00 A61F13/00 A61F13/15 A61F13/49 A61F13/53 A61F5/44 A61L15/16 A61L15/22 A61L15/26 A61L15/44 A61L15/52 B05C11/00 B05C11/02 B05C11/04 B05C3/172 B05C3/18 B05D1/26 B05D1/28 B05D3/12 B32B5/18 C07K1/22 C08J9/40 C08J9/42 C08L83/07 C09D183/07 C12Q1/70 C14C11/00 C14C9/00 D04H1/40 D04H1/42 D04H1/58 D04H1/64 D04H13/00 D06B15/08 D06M10/00 D06M10/10 D06M11/00 D06M15/256 D06M15/263 D06M15/356 D06M15/37 D06M15/564 D06M15/643 D06M15/653 D06M15/657 D06M23/00 D06M23/14 D06N3/00 D06N3/04 D06N3/12 D06N7/00 D21H17/59 D21H19/32 D21H23/38 D21H25/06 G01N33/544 G01N33/569 G01N33/573 (Advanced/Invention);
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B05C11/02 (Core/Non-invention)

International (IPC 1-7): A01N25/34 A41D31/00 A61B19/08 A61F13/00 A61F13/15 A61F13/46 A61F13/49 A61F13/53 A61F5/44 A61L15/16 A61L15/22 A61L15/26 A61L15/44 A61L15/52 A63B39/00 B05C11/00 B05C11/02 B05C11/04 B05C3/132 B05C3/172 B05C3/18 B05C5/00 B05C5/02 B05D1/00 B05D1/26 B05D1/28 B05D1/42 B05D3/12 B05D5/00 B05D5/12 B21F9/00 B32B3/06 B32B3/14 B32B5/18 B32B5/32 B32B7/02 B32B9/04 C07K1/22 C07K1/22 C08J7/00 C08L83/07 C09D183/07 C12N15/48 C12N15/86 C12N7/01 C12Q1/68 C12Q1/70 C14C11/00 C14C9/00 D03D3/00 D04H1/40 D04H1/42 D04H1/64 D04H1/65 D04H1/66 D06C3/00 D06C5/00 D06H1/64 D06H1/64 D06M10/10 D06M11/00 D06M15/256 D06M15/263 D06M15/356 D06M15/364 D06M15/364 D06M15/37 D06M15/37 D06M15/564 D06M15/643 D06M15/653 D06M15/657 D06M15/70 D06M23/00 D06M23/14 D06N3/12 D06N7/00 D21H23/38 G01N33/543 G01N33/544 G01N33/544 G01N33/569 G01N33/569 G01N33/573 G01N33/573

CPC: Y10S428/907 Y10S428/92 Y10S977/788 Y10S428/904 Y10S428/913 Y10S2/901 Y10S977/918 A61F2013/00565 A61F13/00038 Y10T428/2495 Y10T428/269 Y10T428/24967 Y10T428/24975 A61F13/00021 A61F13/51403 A61F13/53704 A61F13/53708 A61F2013/00246 A61F2013/00731 A61F2013/00855 A61F2013/53782 Y10T428/24331 Y10T428/249954 Y10T428/249955 Y10T428/249962 Y10T428/249965 Y10T428/249978 Y10T428/249986 Y10T442/3813 Y10T442/659 Y10T442/699 Y10T428/249921 Y10T428/249953 Y10T428/24996 Y10T428/249981 Y10T442/2525 Y10T428/249982 Y10T428/31544 Y10T428/31663 Y10T442/2139 Y10T442/2164 Y10T442/2189 Y10T442/2016 Y10T442/2098 Y10T442/218 Y10T442/223 Y10T442/2352 Y10T442/2369 Y10T428/249964 Y10T442/2238 Y10T442/2762 Y10T442/277 Y10T442/2861 D06N3/0029 D06N3/0025 A61F13/15731 A61F13/15739 A61F13/15756 A61F13/51401 A61F13/51476 A61F13/5148 Y10S977/891 Y10T428/249958 Y10T428/249991 A61F2013/530598 D04H1/435 D04H1/4382 D04H1/655 D04H1/66 D04H1/4258 D04H1/4334 D04H1/587 A61F13/15772 A61F13/15804 A61F13/505 A61F13/514 A61F13/84 A61F2013/0091 A61F2013/00931 A61F2013/8414 B05C11/02 D06N3/0056 D04H1/58 D04H1/42 D04H1/64 A61F13/49003 A61F13/00063 A61F2013/00927 A61F2013/0074 A61F13/511 D04H13/002 A61F13/51305 A61F2013/51186 D04H1/643 C12Q1/70 B32B5/022 B32B5/024 B32B5/08 B32B5/245 B32B5/26 B32B5/32 B32B27/08 B32B2255/02 B32B2255/10 B32B2255/26 B32B2262/02 B32B2262/04 B32B2262/06 B32B2262/14 B32B2266/06 G01N33/54353 A61F13/512 A61F13/00 A61F13/00008 A61F13/51405 A61F13/51462 A61F2013/00119 A61F2013/00255 A61F2013/00744 A61F2013/00863 A61L15/26 A61L15/52 B05C3/18 B05C11/04 C08J9/40 C08J9/42 C08J2205/05 C08J2427/00 C08J2433/00 C08J2475/00 C08J2483/00 C14C9/00 C14C11/00 D04H1/4209 D04H1/425 D04H1/4266 D06B15/08 D06M15/256 D06M15/263 D06M15/3568 D06M15/564 D06M15/643 D06M15/653 D06M15/657 D06M2101/06 D06M2101/12 D06M2101/26 D06M2101/32 D06M2101/34 D06M2200/12 D06N3/0002 D06N3/047 D06N3/12 D06N3/128 D21H17/59 D21H19/32 D21H25/06

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US: 118/123 118/304 118/33 118/33P 118/413 118/419 118/643 118/663 118/664 118/665 118/67 118/679 118/68 118/683 118/688 118/712 128/849 128/888 156/145 156/167 156/229 156/229S 156/272.2 156/278 2/114 2/83 2/901 424/278.1 424/402 424/404 424/443 424/499 427/10 427/171 427/171S 427/173 427/176 427/209 427/245 427/299 427/324 427/356 427/358 427/359 427/365 427/369 427/387 427/389 427/389.9 427/391 427/392 427/393.3 427/393.4 427/412 427/8 428/138 428/213 428/215 428/216 428/221 428/224 428/225 428/234 428/235 428/240 428/241 428/242 428/244 428/246 428/248 428/252 428/260 428/264 428/272 428/274 428/283 428/286 428/287 428/289 428/290 428/304.4 428/305.5 428/306.6 428/308.4 428/309.9 428/311.1 428/311.11 428/311.5 428/311.51 428/311.7 428/311.71 428/315.5 428/315.7 428/315.9 428/316.6 428/317.1 428/317.9 428/319.3 428/339 428/422 428/425.5 428/447 428/77 428/78 428/904 428/907 428/913 428/920 435/5 435/7.92 436/518 436/535 442/102 442/104 442/123 442/152 442/153 442/164 442/281 442/381 442/417 442/61 442/71 442/76 442/79 442/81 442/82 442/87 442/88 523/103 523/122 528/15 602/48 602/50 604/367 604/372 604/374 604/377 604/378 604/381 604/385.01 604/385.1 977/788 977/891 977/918

Family:

Publication number	Publication date	Application number	Application date
AT191523 E	20000415	AT19960920271T	19960517
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EP0826082 A2	19980304	EP19960915838	19960516
EP0826082 B1	20010328	EP19960915838	19960516
EP0826083 A2	19980304	EP19960920271	19960517
EP0826083 B1	20000405	EP19960920271	19960517
EP0832318 A2	19980401	EP19960914668	19960516
EP0832318 B1	20000823	EP19960914668	19960516
ES2159029 T3	20010916	ES19960915838T	19960516
IL117511 A0	19960723	IL19960117511	19960315
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JP2986219 B2	19991206	JP19960535065T	19960516
JP3220466 B2	20011022	JP19960535088T	19960517
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PT826082 T	20010928	PT19960915838T	19960516
US2001017102 AA	20010830	US19970962700	19971130
US2002088396 AA	20020711	US20010982250	20011016
US5004643 A	19910402	US19890319778	19890310
US5004643 C1	20160315	US19890319778	19890310
US5209965 A	19930511	US19910680645	19910402
US5418051 A	19950523	US19930017855	19930216
US5698303 A	19971216	US19950486212	19950607
US5846604 A	19981208	US19950487004	19950607
US5856245 A	19990105	US19950479919	19950607
US5869172 A	19990209	US19950442983	19950517
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US5874164 A	19990223	US19950472568	19950607
US5876792 A	19990302	US19950407191	19950317
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US5912116 A	19990615	US19950486651	19950607
US5935637 A	19990810	US19970963663	19971103
US5954902 A	19990921	US19950476465	19950607
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US5958137 A	19990928	US19970962698	19971103
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US6312523 BA	20011106	US19990406080	19990927
WO8908553 A1	19890921	WO1989US01006	19890313
WO8908554 A1	19890921	WO1989US01008	19890313
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WO9630432 A2	19961003	WO1996US03501	19960315
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WO9636758 A2	19961121	WO1996US07000	19960516
WO9636758 A3	19970213	WO1996US07000	19960516
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Priority:

US19880319776 19880310	US19880319777 19880310	US19880319778 19880310
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Probable Assignee: NEXTEC APPLICATIONS INC

Assignee(s): (std): CALDWELL J MICHAEL ; CALDWELL JAMES MICHAEL ; CHIRON CORP ; SCHMERMUND GEORGE ; FABRIC COATING CORP ; NEXTEC APPLIC INC ; NEXTEC APPLICATIONS INC ; SILI TEX INC ; VIAGENE INC

Assignee(s): SILICON VALLEY BANK ; ELLMAN PETER ; NEKUSUTETSUKU APURIKEESHONZU INC

Inventor(s): (std): CALDWELL JAMES MICHAEL ; SCHMERMUND GEORGE ; ELLMAN PETER ; GRUBER HARRY E ; JOLLY DOUGLAS J ; RESPESS JAMES G ; LAIKIND PAUL K ; CALDWELL JAMES M ; CALDWELL MICHAEL ; JAMES MICHAEL CALDWELL ; CALDWELL J MICHAEL

Inventor(s): KOORUDOERU JEIMUZU MAIKERU ; HARRY E GRUBER ; DOUGLAS J JOLLY ; JAMES G RESPESS ; PAUL K LAIKIND ; GEORGE SCHMERMUND ; PETER ELLMAN

Agent(s): FB RICE; FB RICE PTY LTD; RICHES MCKENZIE AND HERBERT LLP; REINHOLD COHN AND PARTNERS

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

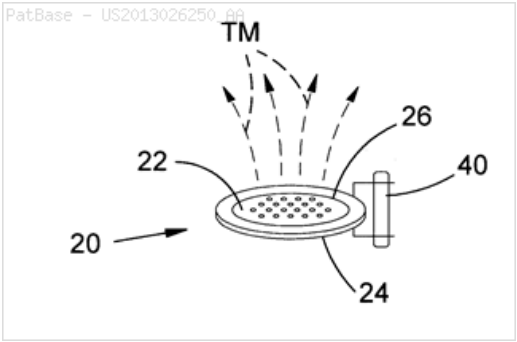
207) Family number: 48959679 (US2013026250A)

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Title: LAVATORY TREATMENT DEVICE AND METHOD

Abstract: Disclosed are devices for the treatment of a lavatory appliance which device generates a mist of a treatment composition, viz, an aerosolized treatment composition which imparts a technical benefit to surfaces of the lavatory appliance which come into contact with the said aerosolized treatment composition. Methods for use of the devices for providing a technical benefit to surfaces of a lavatory appliance treated with the treatment composition, or airspace in the ambient environment of the lavatory appliance are also disclosed.

Classifications:
International (IPC 8-9): A01M1/20 A61L9/14 A62C13/62 B05B17/06 E03D9/00 (Advanced/Invention);
A61L2/22 A61L9/14 (Advanced/Non-invention)
CPC: A01M1/205 A61L2/22 A61L9/14 A61L2202/15 B05B17/0615 B05B17/0623 B05B17/0638 B05B17/0646 B05B17/0661 B05B17/0684 E03D9/005
European: A01M1/20C2L2 B05B17/06B1 B05B17/06B5 B05B17/06B5F B05B17/06B7B B05B17/06B7F2 E03D9/00E K61L2/22 K61L202/150 K61L9/14 L05B17/06B2 L05B17/06B99B10 L05B17/06B99B30B
US: 239/302



Family:

Publication number	Publication date	Application number	Application date
AU2010320708 AA	20110526	AU20100320708	20101116
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Priority:

US20090262393P 20091118 US20100509694 20101116 WO2010GB02097 20101116

Probable Assignee: RECKITT BENCKISER GROUP PLC

Assignee(s): (std): BURT DIANE JOYCE ; CREEK JOHN AUBREY ; HINDLE BENJAMIN DAVID ; RECKITT AND COLMAN OVERSEAS ; RECKITT BENCKISER CT IV ; RECKITT BENCKISER GROUP PLC ; RECKITT BENCKISER LLC

Assignee(s): RECKITT AND COLMAN OVERSEAS LIMITED ; RECKITT AND COLMAN OVERSEAS LTD ; RECKITT BENCKISER CENTER IV

Inventor(s): (std): CREEK JOHN AUBREY ; HINDLE BENJAMIN DAVID ; BURT DIANE JOYCE

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; BOWERS CRAIG MALCOLM; CAWDELL KAREN TERESA; HODGETTS CATHERINE DAWN ET AL

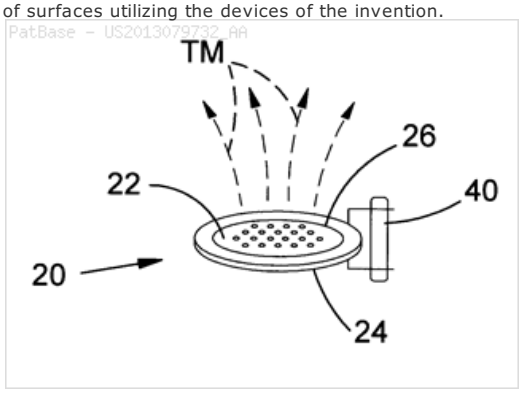
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208) Family number: 48959680 (US2013079732A)

Title: ULTRASONIC SURFACE TREATMENT DEVICE AND METHOD

Abstract: Disclosed are devices which generate a mist of a treatment composition, viz, an aerosolized treatment composition which imparts a technical benefit to surfaces, or airspaces, which come into contact with the said aerosolized treatment composition. Also disclosed are methods for the treatment of surfaces utilizing the devices of the invention.

Classifications:
International (IPC 8-9): A47L11/34 A61H33/10 A61L9/14 A61M35/00 B05B1/18 B05B11/00 B05B15/00 B05B17/00 B05B17/06 B05B7/00 B05D1/02 B05D3/12 B05D7/24 B08B3/12 (Advanced/Invention); A61L9/14 B05B1/18 B05B11/00 (Advanced/Non-invention)
CPC: A61M35/003 B05B17/0607 B05B7/0012 B05B17/0615 B05B17/0623 B05B17/0638 B05B17/0661 B08B3/12 B05B17/0646 B05B15/00
European: B05B17/06B1 B05B17/06B5 B05B17/06B5F B05B17/06B7B B05B7/00B B08B3/12 L05B17/06B2 L05B17/06B99B10
US: 1/1 134/25.2 239/1 239/102.1 239/102.2 239/136 239/154 239/302 239/690 422/28 422/4 427/248.1 604/290 8/137



Family:

Publication number	Publication date	Application number	Application date
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JP2013527020 T2	20130627	JP20120539401T	20101201
KR20120105002 A	20120924	KR20127015734	20101116
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Priority:

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Probable Assignee: RECKITT BENCKISER GROUP PLC

Assignee(s): (std): BURT DIANE JOYCE ; CREEK JOHN AUBREY ; EVANS CHRISTOPHER MICHAEL ; HINDLE BENJAMIN DAVID ; RECKITT AND COLMAN OVERSEAS ; RECKITT BENCKISER LLC ; RECKITT BENCKISER GROUP PLC

Assignee(s): RECKITT AND COLMAN OVERSEAS LTD ; RECKITT AND COLMAN OVERSEAS LIMITED

Inventor(s): (std): AUBREY CREEK JOHN ; MICHAEL EVANS CHRISTOPHER ; DAVID HINDLE BENJAMIN ; JOYCE BURT DIANE ; BURT DIANE JOYCE ; HINDLE BENJAMIN DAVID ; CREEK JOHN AUBREY ; EVANS CHRISTOPHER MICHAEL

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; BOWERS CRAIG MALCOLM; INO SARI; KURASAWA ICHIRO; MATSUSHITA MITSURU; DESHIMARU TAKESHI; KUMAKURA YOSHIO; NORRIS MCLAUGHLIN AND MARCUS PA; HODGETTS CATHERINE DAWN; HODGETTS CATHERINE DAWN 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

209) Family number: 33096689 (US2002189612A)

Title: MEDICAMENT DISPENSER

Abstract: There is provided a medicament dispenser having a body, a medicament container, dose-liberating means, an

energy store for actuating said dose-liberating means and trigger means for directly or indirectly releasing the energy store, wherein the trigger means comprises a trigger coupling. The coupling is reversibly deformable in response to the application of non-mechanical energy thereto. The non-mechanical energy may comprise heat energy, electrical current energy, electrical field energy or magnetic field energy.

Classifications:

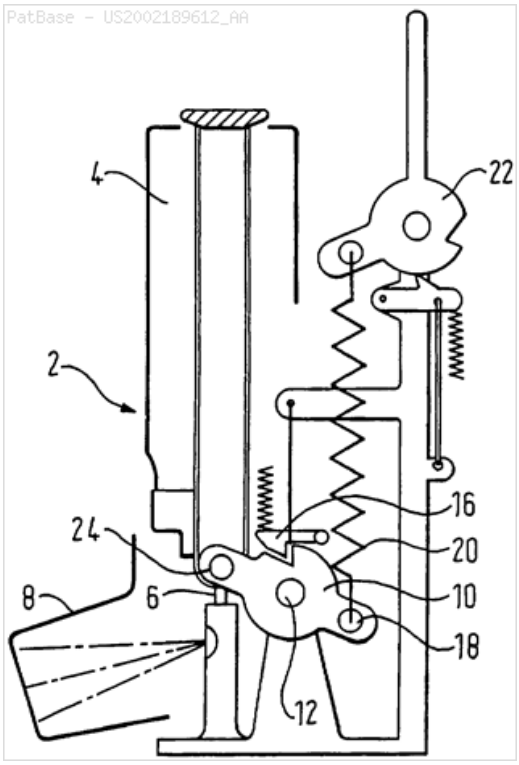
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A61M11/00 A61M13/00 A61M15/00 A61M15/02 A61M15/08 A61M16/00 B05B11/00 B05B9/04 B65D83/06 B65D83/34 B65D83/36 (Advanced/Non-invention);
A61J3/00 A61M11/00 A61M13/00 A61M15/00 A61M15/08 A61M16/00 A61M16/20 A61M5/20 B05B11/00 B05B9/04 B65D83/04 B65D83/06 B65D83/34 B65D83/36 B67D7/00 H05B3/00 (Core/Invention);
A61M15/02 A61M16/00 (Core/Non-invention)

International (IPC 1-7): A61J3/02 A61M11/00 A61M13/00 A61M15/00 A61M15/08 A61M15/20 A61M16/00 A61M16/10 A61M16/20 A61M5/178 A61M5/20 A62B9/00 B05B11/00 B05B9/04 B65D83/04 B65D83/06 B65D83/34 B65D83/36 B65H5/28 B67D5/02 G07F11/66

CPC: A61M15/0026 A61M15/0043 A61M15/0051 A61M15/0055 A61M15/0068 A61M15/008 A61M15/0023 A61M2202/062 A61M2209/06 A61M15/0065 A61M15/0028 A61M15/009 A61M15/0091 A61M2016/0039 A61M2205/0266 A61M2205/3584 A61M2205/8206 A61M2205/332 A61M2205/8212 A61M2016/0021 A61M2202/064 A61M2205/3306 A61M15/02 A61M2205/10 A61M2205/505 A61M2205/6054 A61M2205/80 A61M15/0045 A61M15/0078 A61M15/0071 A61M15/007 A61M2205/825 A61M15/00

European: A61M15/00C A61M15/00C2 A61M15/00D A61M15/00T K61M15/00A20B K61M15/00C1S K61M15/00C2B6 K61M15/00C2D2 K61M15/00D4 K61M15/00D4E K61M15/00P K61M15/02 K61M16/00A11 K61M16/00A14B4 K61M16/00A20 K61M16/00A8B2 K61M202/06A2 K61M202/06B K61M205/02S K61M205/10 K61M205/33D K61M205/35T1 K61M205/50A1 K61M205/60M K61M205/80 K61M205/82B K61M209/06

US: 128/200.14 128/200.23 128/202.22 128/203.12 128/203.15 128/203.21 128/203.23 128/203.27 206/531 221/25 221/71 604/186 604/58 604/59



Family:

Publication number	Publication date	Application number	Application date
AR026914 AA	20030305	AR2000P106510	20001207
AR031162 AA	20030910	AR2001P105052	20011029
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Priority:

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EP20010992592 20011019	WO2001EP12107 20011019	WO2001EP12106 20011019

Probable Assignee: GLAXOSMITHKLINE PLC

Assignee(s): (std): DAVIES MICHAEL BIRSHA ; FARR PHILIP WILLIAM ; JONES ANTHONY PATRICK ; HARVEY STEPHEN JAMES ; RAND PAUL KENNETH ; GLAXO GROUP LTD ; ANDERSON GREGOR JOHN MCLENNAN ; BONNEY STANLEY GEORGE ; GLAXO GROUP RES LTD ; GLAXOSMITHKLINE PLC ; ROBERTSON DUNCAN ;

Assignee(s):	SMITHKLINE BEECHAM CORP SMITH KLINE BEECHAM CORP ; GLAXO GROUP LTD GREENFORD ; RAND PAUL KENNTH ; DAVIES MICHAEL BIRSBA ; GLAXO GROUP RESEARCH LTD
Inventor(s): (std):	ROBERTSON DUNCAN ; RAND PAUL KENNTH ; DAVIES MICHAEL BIRSBA ; HARVEY STEPHEN JAMES ; RAND PAUL KENNETH ; ANDERSON GREGOR JOHN MCLENNAN ; FARR PHILIP WILLIAM ; BONNEY STANLEY GEORGE ; DAVIES MICHAEL BIRSHA ; JONES ANTHONY PATRICK ; ANDERSON G J M ; FARR P W ; RAND P K ; ANDERSON GREGOR J MCLENNAN ; ANDERSON GREGOR ; FARR PHILLIP WILLIAM ; ANDERSON GREGORY JOHN MCLENNAN ; JONES PATRICK ; MICHAEL BIRSHA DAVIES ; STANLEY GEORGE BONNEY ; PK RAND ; DUNCAN ROBERTSON ; PW FARR ; GJM ANDERSON ; GREGORY JOHN MCLENNAN ANDERSON ; GREGOR JOHN MCLENNAN ANDERSON ; PAUL KENNETH RAND ; STEPHEN JAMES HARVEY ; ANTHONY PATRICK JONES ; PHILIP WILLIAM FARR ; REND PAUL KENNETH ; FARR WILLIAM ; HARVEY JAMES ; ANDERSON J MCLENNAN ; RAND KENNETH
Inventor(s):	PAUL KENNETH REND ; PHILLIP WILLIAM FARR ; MCLENNAN ANDERSON GREGOR JOHN ; BONNEY STANLEY ; JONES ANTHONYY ROBERTSON DUNCAN ; JOHN MCLENNA ; G J M ANDERSON ; P W FARR ; P K RAND
Agent(s):	PHILLIPS ORMONDE FITZPATRICK; OGILVY RENAULT LLP SENCRL SRL; SARGENT; JOSE ANTONIO LLOREDA; RICE JASON NEALE ET AL; RIEK JAMES P; J MICHAEL; ROBERT J; STRICKLAND J MICHAEL
Designated states:	AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

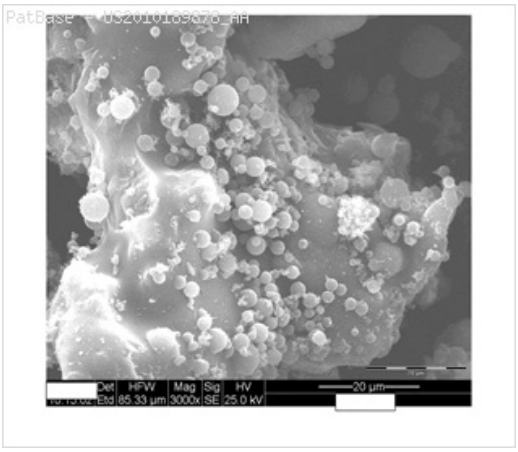
210) Family number: 46403694 (US2010189878A)

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Title: PROCESSES FOR COATING A CARRIER WITH MICROPARTICLES

Abstract: Processes for coating a carrier with microparticles of a drug are described. For example, a coated carrier can be obtained in a one-stage process that entails evaporating a solvent from microdroplets of a solution containing an API to obtain dry microparticles, which are then coated on the carrier.

Classifications:
International (IPC 8-9): A61K A61K31/41 A61K47/10 A61K47/26 A61K47/36 A61K47/38 A61K9/14 A61K9/16 A61K9/28 A61K9/50 B01J8/24 B05D1/12 B05D3/00 (Advanced/Invention);
A61K31/41 A61K47/36 A61K47/38 A61K9/16 (Advanced/Non-invention);
A61K9/16 B05D3/00 (Core/Invention);
A61K (Subclass/Invention)
CPC: A61K31/41 A61K9/5078 A61K9/167 A61K9/5089
European: A61K9/50K2 A61K9/50P
US: 424/427 424/489 424/490 427/180 427/185 427/2.14 427/2.140P 427/2.15



Family:

Publication number	Publication date	Application number	Application date
CA2750711 AA	20110725	CA20102750711	20100126
CA2750711 C	20150707	CA20102750711	20100126
CN102292072 A	20111221	CN201080005618	20100126
EP2389162 A1	20111130	EP20100701607	20100126
IL214221 A0	20110831	IL20100214221	20100126
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US2010189878 AA	20100729	US20100693602	20100126
US2014272100 AA	20140918	US20140288014	20140527
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WO10085780 A1	20100729	WO2010US22045	20100126

Priority:

US20090147287P 20090126 US20100693602 20100126 WO2010US22045 20100126 US20140288014 20140527

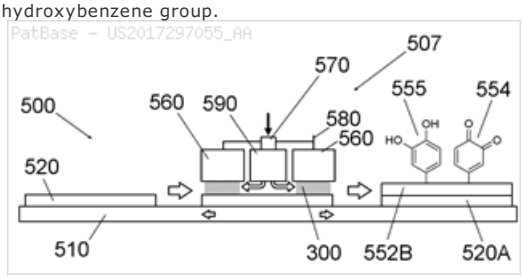
Probable Assignee:	TEVA PHARMACEUTICAL IND LTD
Assignee(s): (std):	KURGAN ZIV ; MASARWA ABED ; SADYKHOV AKPER ; SAMBURSKI GUY ; TEVA PHARMA ; TEVA PHARMACEUTICAL USA INC
Assignee(s):	TEVA PHARMACEUTICALS USA INC ; TEVA PHARMACEUTICAL IND LTD ; TEVA PHARMACEUTICAL INDUSTRIES LTD
Inventor(s): (std):	KURGAN ZIV ; SAMBURSKI GUY ; MASARWA ABED ; SADYKHOV AKPER
Inventor(s):	GUY SAMBURSKI ; AKPER SADYKHOV ; ABED MASARWA ; ZIV KURGAN
Agent(s):	HEENAN BLAIKIE LLP; AITKEN KLEE LLP; WONG KIT YEE; MERCHANT AND GOULD PC; RATNERPRESTIA; WALLACE W DAVID
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

211) Family number: 62064695 (US2017297055A)

Title: PLASMA DEPOSITION METHOD FOR CATECHOL/QUINONE FUNCTIONALISED LAYERS

Abstract: The invention provides a solvent-free plasma method for depositing an adherent catechol and/or quinone functionalised layer to an inorganic or organic substrate from a precursor which comprises at least a quinone group; a protected or unprotected catechol group; a molecule substituted by a quinone group and/or a protected or unprotected catechol group; and/or a natural or synthetic derivative of a catechol group and/or a quinone group; wherein the quinone group is a 1,2-benzoquinone group and the catechol group is a 1,2-dihydroxybenzene group.

Classifications:
International (IPC 8-9): B05D1/00 B05D5/00 C09D133/04 C09D133/26 C23C14/12 C23C16/505 C23C16/511 C23C16/515 (Advanced/Invention)
CPC: C09D133/26 C09D133/04 B05D1/62 B05D5/00
US: 1/1 204/165



Family:

Publication number	Publication date	Application number	Application date
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SG11201702534V A1	20170530	SG20171102534	20150824
US2017297055 AA	20171019	US20150515916	20150824
WO16050419 A2	20160407	WO2015EP69361	20150824
WO16050419 A3	20160609	WO2015EP69361	20150824

Priority:
EP20140187218 20140930 WO2015EP69361 20150824

Probable Assignee: LUXEMBOURG INST OF SCIENCE AND TECHNOLOGY LIST

Assignee(s): (std): DE LIEGE UNIV ; LUXEMBOURG INST OF SCIENCE AND TECH ; LUXEMBOURG INST OF SCIENCE AND TECH LIST ; LUXEMBOURG INST OF SCIENCE AND TECHNOLOGY

Assignee(s): LUXEMBOURG INST OF SCIENCE AND TECHNOLOGY LIST

Inventor(s): (std): MORENO COURANJOU MARYLINE ; VREULS CHRISTELLE ; DETREMBLEUR CHRISTOPHE ; BOSCHER NICOLAS ; CHOQUET PATRICK ; MAUCHAUFFE RODOLPHE ; VANDEWEERDT CECILE

Agent(s): LECOMTE AND PARTNERS; OSHIMA AND PARTNERS; RAVINDRAN ASSOCIATES LLP; PEEL JAMES PETER

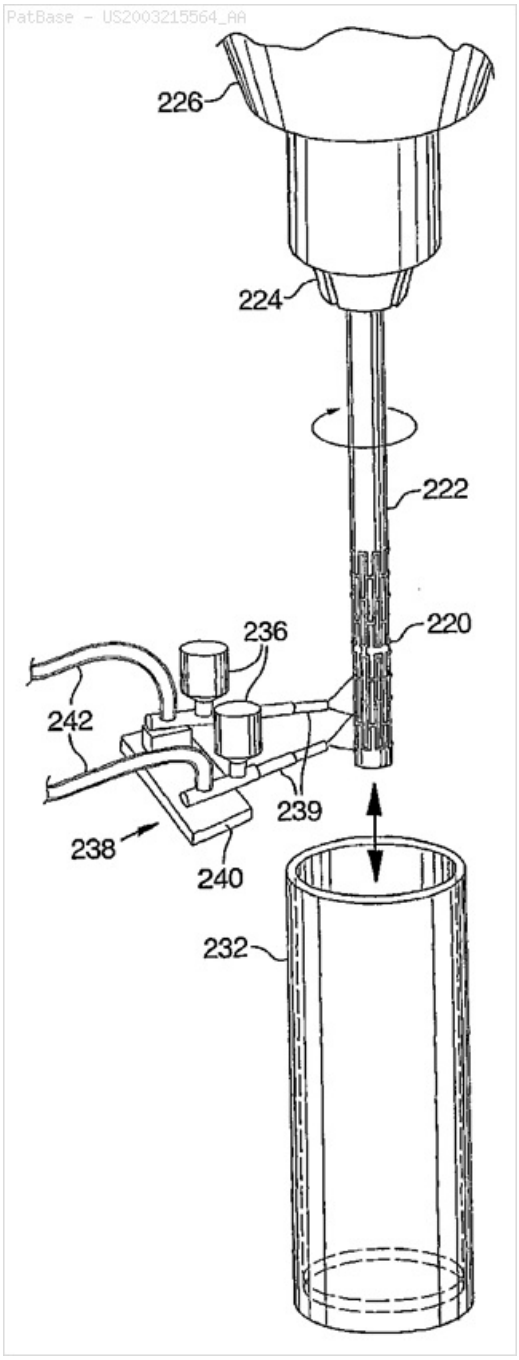
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212) Family number: 29750697 (US2003215564A)

Title: METHOD AND APPARATUS FOR COATING AN ENDOPROSTHESIS

Abstract: Methods and apparatus are disclosed for coating endoprostheses. The methods use distributive forces such as centrifugal force or vibration to distribute a bioactive liquid over the surface of the endoprosthesis. In some embodiments, the endoprosthesis is elongated along the longitudinal axis, and is substantially tubular, such as a stent. In other embodiments, the force is applied by rotating the endoprosthesis at speeds between 100-100,000 RPM, or by vibrating it at frequencies between about 10 Hz and about 200,000 Hz. The invention also includes a device for providing a predictable coating on the surface of an endoprosthesis, which includes means for applying bioactive liquid to the endoprosthesis, and means for applying centrifugal force or vibration to distribute the bioactive liquid. The invention also includes endoprostheses that have been subjected to centrifugal force to distribute a bioactive liquid coating layer.

Classifications:
International (IPC 8-9): A61F2/06 A61F2/86 B05D1/00 (Advanced/Invention); A61F2/00 (Advanced/Non-invention); B05D1/00 (Core/Invention)
International (IPC 1-7): A61F2/06 B05D1/40
CPC: A61F2/86 A61F2250/0067 A61F2310/0097 B05C3/09 B05C11/08 B05D1/002 B05D1/005
European: A61F2/06S6 A61F2/86 B05C11/08 B05D1/00C2 K61F250/00W5 K61F310/00L33 L05C3/09 L05D1/00C
US: 118/57 118/57S 427/2.25 427/2.250P 623/1.11 623/1.110S 623/1.42 623/1.420S



Family:

Publication number	Publication date	Application number	Application date
AU2001229631 AA	20010731	AU20010229631	20010118
AU200129631 A1	20010731	AU20010029631	20010118
AU200129631 A5	20010731	AU20010029631	20010118
US2003215564 AA	20031120	US20020181309	20021219
WO0152772 A1	20010726	WO2001US01783	20010118

Priority:

US20000176989P 20000119 WO2001US01783 20010118 US20020181309 20021219

Probable Assignee: UNIV JOHNS HOPKINS

Assignee(s): (std)**:** UNIV JOHNS HOPKINS ; US HEALTH ; KIM DONG WOON ; FOEHLICH JEFFREY P ; FROEHLICH JEFFREY P ; HELDMAN ALAN W ; HELLER PHILIP F ; HELLER PHILLIP F

Assignee(s): JOHNS HOPKINS UNIV ; THE GOVERNMENT OF THE UNITED STATES OF AMERICA AS ; JOHNS HOPKINS UNIVERSITY ; REPRESENTED BY SEC DEP OF HEALTH HUMAN SERVICES NATIONAL INSTITUTES OF HE AS US GOV ; THE GOVERNMENT OF THE UNITED STATES OF AMERICA AS REPRESENTED ; THE GOVERNMENT OF THE UNITED STATES OF AMERICA AS REPRESENTED BY THE SECRETARY DEPARTMENT OF HEALTH HUMAN SERVICESTHE NATIONAL INSTITUTES OF HEALTH ; REPRESENTED BY SEC DEP OF HEALTH HUMAN SERVICESTHE NATIONAL INSTITUTES OF HEALTH AS US GOV ; REPRESENTED AS US GOV

Inventor(s): (std)**:** HELLER PHILLIP F ; HELDMAN ALAN W ; FOEHLICH JEFFREY P ; KIM DONG WOON ; FROEHLICH JEFFREY P ; HELLER PHILIP F

Inventor(s): JEFFREY P FROEHLICH ; PHILIP F HELLER ; ALAN W HELDMAN ; DONG WOON KIM

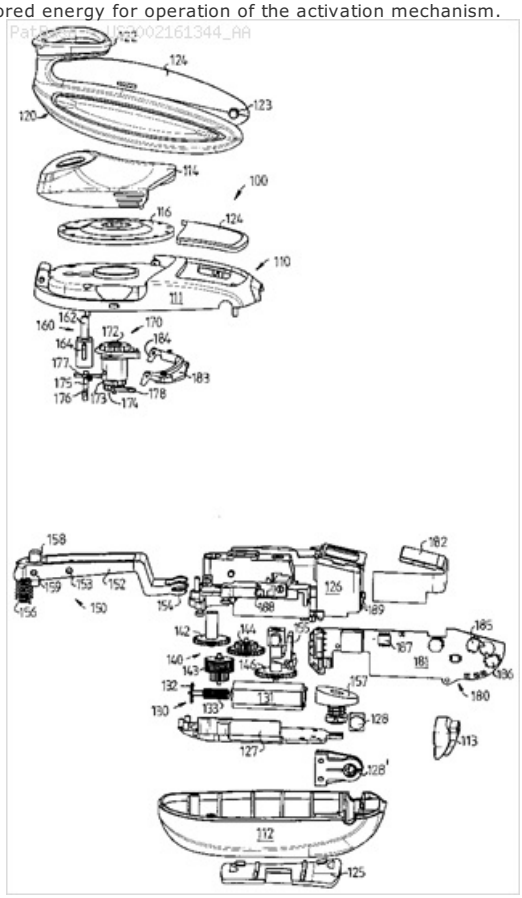
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG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

213) Family number: 28261698 (US2002161344A)

Title: LIQUID DELIVERY DEVICE AND METHOD OF USE THEREOF

Abstract: A device and use method for ejecting a liquid stream towards an eye, the stream moving from a proximal position towards a distal position, the device comprising a) a housing, b) a container for the liquid, c) at least one opening arranged for ejection of the stream and being in fluid communication with the container, d) a pump mechanism operable to deliver at least part of the liquid from the container through the opening to form the stream and e) an eyecup with a contact surface arranged for contact with the eye or its facial surroundings. The eyecup is arranged movable with respect to the opening or housing between at least two positions i) an active position with said eyecup contact surface at a defined safety distance to the opening and ii) a rest position with the eyecup contact surface at a position more proximal than in the active position and a sensor is arranged to allow discrimination between the positions. The pump mechanism may include a pump driver able to store cocked energy for driving the pump mechanism and at least one activation mechanism may be present and operable to initiate the device for the liquid delivery, whereby a driving mechanism is arranged to transform manual or stored energy both i) into cocked energy of the pump driver and ii) into direct or stored energy for operation of the activation mechanism.

Classifications:
International (IPC 8-9): A61F9/00 A61F9/007 A61H A61H33/04 A61H35/02 A61J1/05 A61M35/00 B05B B05B9/03 B05B9/04 B67D B67D99/00 (Advanced/Invention);
A61H33/04 B05B9/04 (Advanced/Non-invention);
A61F9/00 A61F9/007 A61H33/04 A61H35/00 A61J1/05 A61M35/00 B05B9/03 B05B9/04 B67D99/00 (Core/Invention)
International (IPC 1-7): A61F9/00 A61F9/007 A61H33/04 A61H35/02 A61J1/05 A61M35/00 A61M37/00 B05B9/04 B65D83/00 B65D88/54
CPC: A61F9/0008 A61F9/0026 A61H35/02
European: A61F9/00B A61H35/02 K61F9/00B4
US: 222/325 222/401 604/151 604/294 604/295 604/301



Family:

Publication number	Publication date	Application number	Application date
AU2002230329 AA	20020819	AU20020230329	20020129
AU2002230329 BB	20051222	AU20020230329	20020129
AU2005242146 AA	20060119	AU20050242146	20051207
BRPI0206988 A	20040210	BR2002PI06988	20020129
CA2434201 AA	20030707	CA20022434201	20020129
CA2434201 C	20070410	CA20022434201	20020129
CA2553153 AA	20020815	CA20022553153	20020129
CN1259151 C	20060614	CN20028004739	20020129
CN1500011 A	20040526	CN20028004739	20020129
CN1799529 A	20060712	CN200510132969	20020129
CZ20032125 A3	20031217	CZ20030002125	20020129
EA005024 B1	20041028	EA20030000861	20020129
EA200300861 A1	20031225	EA20030000861	20020129
EP1363746 A1	20031126	EP20020711582	20020129
HK1063024 A1	20060915	HK20040105848	20040806
HK1063024 A1	20041210	HK20040105848	20040806
HK1063024 A3	20041210	HK20040105848	20040806
HK1063024 B	20060915	HK20040105848	20040806
HK1089355 A1	20061201	HK20060109890	20060906
HK1089355 A3	20061201	HK20060109890	20060906
HU0302851 AB	20031229	HU20030002851	20020129
HU0302851 AC	20060228	HU20030002851	20020129
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IN01210CN2003 A	20051118	IN2003CN01210	20030805
JP2004528069 T2	20040916	JP20020562484T	20020129
KR20030076666 A	20030926	KR20037010486	20020129
MXPA03007107 A1	20031118	MX2003PA07107	20020129
NO20033509 A	20030929	NO20030003509	20030807
NO20033509 A0	20030807	NO20030003509	20030807

NO20033509 L	20030929	NO20030003509	20030807
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NZ534584 A	20060127	NZ20020534584	20020129
PL369105 A1	20050418	PL20020369105	20020129
SE200100418 A0	20010208	SE20010000418	20010208
TW562681 B	20031121	TW20010126642	20011026
US2002161344 AA	20021031	US20020071825	20020207
US2004215157 AA	20041028	US20040850230	20040520
US6758837 BB	20040706	US20020071825	20020207
WO02062488 A1	20020815	WO2002SE00150	20020129

Priority:

SE20010000418	20010208	US20010328551P	20011011	AU20020230329	20020129
CA20022434201	20020129	CA20022553153	20020129	WO2002SE00150	20020129
NZ20020526784	20020129	US20020071825	20020207	US20040850230	20040520

Probable Assignee: PHARMACIA AB

Assignee(s): (std): GREMION EMMANUEL ; HIMBERT HANS ; KAESER STEFAN ; KASER STEFAN ; PECLAT CHRISTIAN ; PHARMACIA AB ; SAURER ALAIN ; SIEGFRIED DANIEL ; VILLIGER BEAT

Assignee(s): PHARMACIA SE AB ; PHARMACIA AB STOCKHOLM ; PHARMACIA AB S 112 87 STOCKHOLM SWEDEN ; PFIZER HEALTH AB

Inventor(s): (std): A SAURER ; STEFAN KASER ; BEAT VILLIGER ; HANS HIMBERT ; DANIEL SIEGFRIED ; CHRISTIAN PECLAT ; C PEKRAT ; E GREMION ; ALAIN SAURER ; EMMANUEL GREMION ; KASER STEFAN AND ; SAURER A ; GREMION E ; PEKRAT C ; VILLAGER BEAT ; KASER STEFAN ; SIEGFRIED DANIEL ; KAESER STEFAN ; VILLIGER BEAT ; HIMBERT HANS ; GREMION EMMANUEL ; SAURER ALAIN ; PECLAT CHRISTIAN ; CHRIS SIEGFRIED DANIEL HIMBERT ; SAURER C PEKRAT E GREMION A

Inventor(s): C PEKRAT E GREMION A SAURER ; SIEGFRIED DANIEL HIMBERT HANS SAURER ALAIN VILLIGE ; SIEGFRIED DANIEL HIMBERT HANS SAURER ALAIN... ; STEFAN KAESER

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; GOWLING LAFLEUR HENDERSON LLP; ZHONGZI IP ROOM 1204 12 F SHANGHAI IND INVESTMENT BLDG 48 62 HENNESSY; ZHONGZI IP; HITOSHIO AKIO; TSUBOKURA MICHIAKI; ONO MAKOTO; OSAKI KATSUMASA; KAWAGUCHI YOSHIO

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

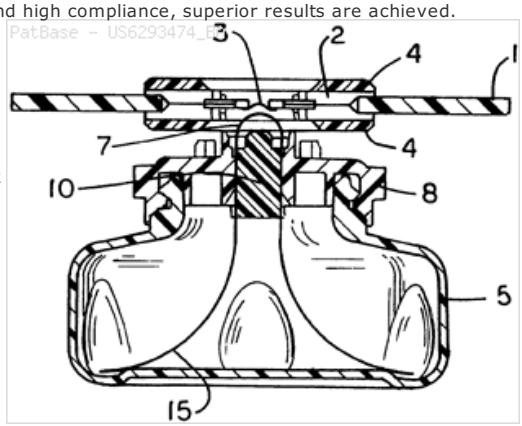
214) Family number: 11142707 (US6293474B)

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Title: Delivery system for dispensing volatiles

Abstract: Disclosed herein is a piezoelectric liquid delivery system or atomizer for production of droplets of liquid or liquid suspensions by means of a battery operated continuous action dispenser utilizing an orifice plate in communication with a piezoelectric element. By use of a wick having specified properties and high compliance, superior results are achieved.

Classifications:
International (IPC 8-9): B05B B05B17/00 B05B17/04 B05B17/06 (Advanced/Invention); B05B17/06 (Advanced/Non-invention)
International (IPC 1-7): A45D34/02 B05B1/08 B05B17/04 B05B17/06 B05B3/04 B65D83/14
CPC: B05B17/0646 B05B17/0684 A01M1/205 A61L9/14
European: A01M1/20C2L2 A61L9/14 B05B17/06B5F B05B17/06B7F2
US: 239/102.1 239/102.2



Family:

Publication number	Publication date	Application number	Application date
AR020561 AA	20020515	AR2000P100861	20000228
AT394172 E	20080515	AT20000911739T	20000209
AU200033589 A1	20000928	AU20000033589	20000209
AU200033589 A5	20000928	AU20000033589	20000209
AU762260 B2	20030619	AU20000033589	20000209
BRPI0008832 A	20011218	BR2000PI08832	20000209
BRPI0008832 B1	20100209	BR2000PI08832	20000209
CA2362747 AA	20010906	CA20002362747	20000209
CA2362747 C	20060801	CA20002362747	20000209
CN1211166 C	20050720	CN20008006411	20000209
CN1347348 A	20020501	CN20008006411	20000209
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EP1159077 A1	20011205	EP20000911739	20000209
EP1159077 B1	20080507	EP20000911739	20000209
EP1870167 A2	20071226	EP20070017899	20000209
ES2303505 T3	20080816	ES20000911739T	20000209
HK1043750 A1	20060224	HK20020105346	20020719
HK1043750 B	20060224	HK20020105346	20020719
JP2002538000 T2	20021112	JP20000603817T	20000209

KR20020003201 A	20020110	KR20017011403	20000209
MXPA01009050 A1	20020506	MX2001PA09050	20000209
NZ514109 A	20030328	NZ20000514109	20000209
PL195448 B1	20070928	PL20000353624	20000209
PL353624 A1	20031201	PL20000353624	20000209
TW506855 B	20021021	TW20000104076	20000407
US6293474 BA	20010925	US20000498859	20000207
WO0053336 A1	20000914	WO2000US03286	20000209
ZA200107527 A	20021127	ZA20010007527	20010912

Priority:

US19990123206P 19990308 US20000498859 20000207 EP20000911739 20000209
WO2000US03286 20000209

Probable Assignee: SC JOHNSON AND SON INC

Assignee(s): (std): S C JOHNSON ; S C JOHNSON AND AMP SON INC ; S C JOHNSON AND SON INC ; JOHNSON AND SON INC S C

Assignee(s): MARTENS EDWARD J III ; HELF THOMAS A ; SC JOHNSON AND ; SC JOHNSON AND SON INC ; SON INC ; SCJOHNSON AND SON INC ; TOMKINS DAVID A

Inventor(s): (std): HELF THOMAS A ; MARTENS EDWARD J III ; TOMKINS DAVID A ; HELF THOMAS ; TOMKINS DAVID ; MARTENS EDWARD ; III ; MARTENS III EDWARD J ; MARTENS EDWARD J

Inventor(s): EDWARD J MARTENS III ; DAVID A TOMKINS ; EDWARD J MARTENS ; THOMAS A HELF ; MARTENS EDWARD JIII

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; BERESKIN AND PARR; RUSCHKE HANS EDVARD ET AL

Designated states: AT AU BE BR CA CH CN CY DE DK ES FI FR GB GR IE IT JP KR LI LU MC MX NL NZ PL PT SE ZA

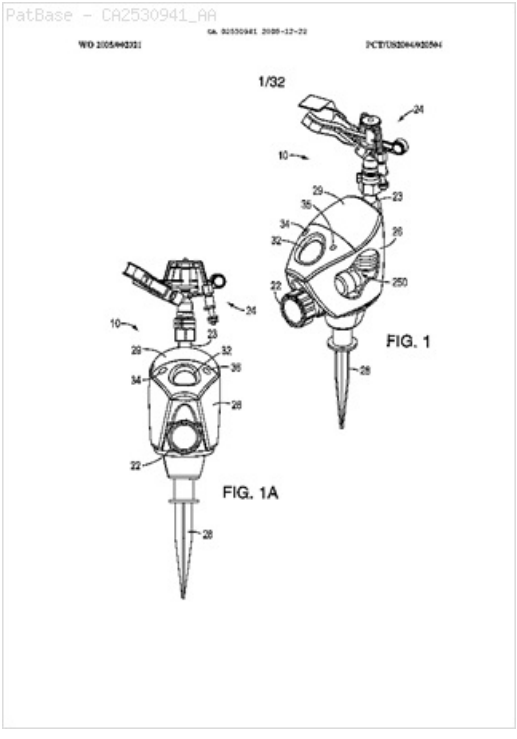
215) Family number: 33507708 (CA2530941C)

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Title: COMMUNICATION SYSTEM FOR MULTIZONE IRRIGATION

Abstract: A multizone irrigation system (230A) includes a central control unit (300) having a central control system (60) interfaced with a central valve (302) and a central communication unit (e.g., a pressure sensor 304). The central valve regulates water flow for irrigation from a water source and can lower water pressure in the pipes using output (301). The central communication unit is constructed to transmit or receive pressure based communication signals providing irrigation information. Each zone includes a sprinkler control unit (2311, 2312...231N) including a sprinkler connected to a water pipe for irrigation. Each sprinkler control unit includes a local controller (235) interfaced with a local valve (250) for controlling water flow to the sprinkler. The sprinkler control unit also includes a local communication unit (e.g., a pressure sensor 239) constructed to receive communication signals from the central communication unit and provide received irrigation information to the local controller.

Classifications:
International (IPC 8-9): A01G25/00 A01G25/02 A01G25/06 A01G25/16 A01G27/00 B05B1/14 B05B12/00 B05B15/06 B05B15/10 B67D5/08 B67D7/08 G01M3/04 G01M3/08 G01M3/18 G05B11/01 G05B19/042 G05D11/00 (Advanced/Invention);
G01W1/14 (Advanced/Non-invention);
A01G A01G25/00 A01G25/02 A01G25/16 A01G27/00 B05B1/14 B05B15/00 B67D7/08 G01M3/04 G01M3/06 G05B11/01 G05B19/04 G05D11/00 (Core/Invention);
A01G (Subclass/Invention)
CPC: Y02A40/237 A01G25/16 G05B19/0423 G05B2219/23051 G05B2219/25187 G05B2219/2625 B05B1/00 B05B9/035 B05B12/085 B05B12/12 B05B15/622
European: A01G25/16 G05B19/042N S05B219/23051 S05B219/25187 S05B219/2625



Family:

Publication number	Publication date	Application number	Application date
AU2004253529 AA	20050113	AU20040253529	20040624
AU2004253529 BB	20091203	AU20040253529	20040624
CA2530941 AA	20051222	CA20042530941	20040624
CA2530941 C	20130806	CA20042530941	20040624

Priority:

WO2003US20117 20030624 WO2004US20504 20040624

Probable Assignee: ARICHELL TECH INC

Assignee(s): (std): ARICHELL TECH INC

Assignee(s): ARICHELL TECHNOLOGIES INC ; GULER FATIH ; HERBERT KAY ; PARSONS NATAN E ; SLOAN VALVE

CO

Inventor(s): (std): PARSONS NATAN E ; HERBERT KAY ; GULER FATIH

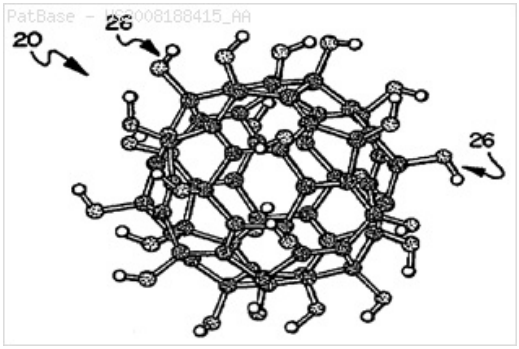
Inventor(s): FATIH GULER ; KAY HERBERT ; NATAN E PARSONS

Agent(s): PHILLIPS ORMONDE FITZPATRICK; RIDOUT AND MAYBEE LLP

216) Family number: 42076709 (US2008188415A)

Title: COMPOSITION OF MATTER CONTAINING HARMONIZED HYDROXYL MODIFIED FULLERENE SUBSTANCE

Abstract: The present invention provides a composition of matter having a harmonized form (Phi/phi) of a hydroxyl modified fullerene having a molecular formula of $C_{60}(OH)xH_y?_z$ (where x is from 10 to 36, and y is from 0 to 24 and z is from 0 to 12) the composition of matter having substantially the same ^{13}C NMR spectra shown in Fig. 8 having a dominant peak at 170.2 ppm. This peak shows that each carbon atom of C_{60} is equally covered by OH groups and that the system $[C_{60}(OH)xH_y?_z]^{(Phi/phi}$ is one body entity.



Classifications:
International (IPC 8-9): A61K31/375 A61K31/404 A61K35/02 A61K38/02 A61K38/16 A61K47/00 A61K47/08 A61K49/00 A61K8/02 A61P17/00 A61P17/02 A61P17/10 A61P17/12 A61P25/28 A61P29/00 A61P31/22 A61P35/00 A61P43/00 A61Q19/00 A61Q19/04 A61Q19/08 A61Q90/00 A61Q99/00 B05D5/06 C01B5/00 C02F1/00 C02F1/48 C07C35/00 C07D209/10 C07D209/60 C07D209/92 C07D403/02 C07D403/08 C12N5/00 C12Q1/02 G01N33/50 G02C7/00 G03G15/08 (Advanced/Invention);
A61K31/375 A61K38/02 A61K38/16 A61K47/00 A61K47/08 A61K49/00 A61P43/00 A61Q90/00 B05D5/06 C01B5/00 C02F1/48 C07C35/00 C07D403/00 G02C7/00 G03G15/08 (Core/Invention)
CPC: A61K49/00 A61K31/404 G01N33/5008 C07D209/10 C07D209/60 C07D209/92 A61K8/19 A61K8/671 A61K9/08 A61K31/375 A61Q19/00 C01B5/00 C02F1/005 C02F1/30 C02F1/48 C07C35/44 C07C2604/00
European: A61K31/375 A61K8/19 A61K8/67C A61K9/08 A61Q19/00 C01B5/00 C02F1/00M C07C35/44 C07D209/10 C07D209/60 C07D209/92 M02F1/30 M02F1/48 M07C104/00
US: 1/1 204/157.5 204/157.500P 204/557 204/557S 351/44 351/44S 423/580.1 423/580.100P 424/489 424/489P 424/9.1 424/9.100P 427/162 427/162P 435/29 435/29S 435/375 435/375S 514/12 514/18.8 514/18.800S 514/2 514/411 514/411S 514/414 514/414S 514/474 514/474S 514/772 514/772S 514/9.7 514/9.700S 548/427 548/427S 548/436 548/436S 548/455 548/455S 568/700 568/700S 977/734 977/734S

Family:

Publication number	Publication date	Application number	Application date
AU2008213994 AA	20080814	AU20080213994	20080204
CA2677260 AA	20090731	CA20082677260	20080204
CN101808670 A	20100818	CN200880009322	20080204
CN101808670 B	20130327	CN200880009322	20080204
EP2125022 A2	20091202	EP20080728955	20080204
EP2125022 A4	20120808	EP20080728955	20080204
JP2011504456 T2	20110210	JP20090548492T	20080204
US2008188415 AA	20080807	US20080025659	20080204
US2008219917 AA	20080911	US20080025646	20080204
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US2011262354 AA	20111027	US20080668460	20080710
US2012080305 AA	20120405	US20110323569	20111212
US2015183736 AA	20150702	US20150656173	20150312
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US2017354747 AA	20171214	US20170422948	20170202
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WO08097922 A2	20080814	WO2008US52946	20080204
WO08097922 A3	20081120	WO2008US52946	20080204
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Priority:

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Probable Assignee: DVB GLOBAL

Assignee(s): (std): DVB GLOBAL ; DVB GLOBAL LLC ; KORUGA DJURO ; GEORGIA STATE UNIV RESEARCH FOUNDATION INC ; UNIV EMORY ; ZHAU HAIYEN E ; SHI CHUNMENG ; WANG RUOXIANG ; STREKOWSKI LUCJAN ; YANG XIAOJIAN ; ZHU GUODONG ; UNIV GEORGIA STATE RES FOUND ; KRUTAK JAMES ; PATONAY GABOR ; HENARY MAGED ; CHUNG LELAND W K

Assignee(s): NATIONAL INSTITUTES OF HEALTH NIH US DEPT OF HEALTH AND HUMAN SERVICES DHHS US GOVERNMENT ; NATIONAL INSTITUTES OF HEALTH DIRECTOR DEITR ; EMORY UNIV ; EMORY UNIVERSITY ; GEORGIA STATE UNIVERSITY RESEARCH FOUNDATION INC

Inventor(s): (std): KRUTAK JAMES J ; DJURO KORUGA ; ZHU GUODONG ; HENARY MAGED ; PATONAY GABOR ; YANG XIAOJIAN ; STREKOWSKI LUCJAN ; ZHAU HAIYEN E ; WANG RUOXIANG ; CHUNG LELAND W K ; SHI CHUNMENG ; KRUTAK JAMES ; KORUGA DJURO

Inventor(s): CHUNG LELAND WK

Agent(s): FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; HERBERT SMITH FREEHILLS; FPA PATENT ATTORNEYS PTY LTD; OYEN WIGGS GREEN AND MUTALA LLP; PROBERT GARETH DAVID; JOSEPH A FUCHS ROCKEY DEPKE AND LYONS LLC; ROCKEY DEPKE AND LYONS LLC; JOSEPH A; FUCHS JOSEPH; DOUGHTY SUSAN K ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL

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

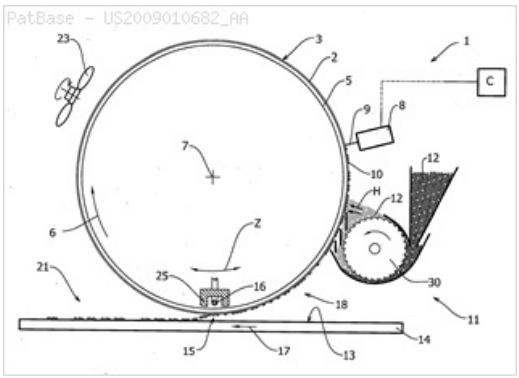
217) Family number: 35872716 (US2009010682A)

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Title: DECORATING WITH POWDER MATERIAL

Abstract: A method for applying a pattern (21, 57) of granular material (12, 12b, 12c, 12d) on a receiving surface (13), comprising in sequence associating said granular material (12, 12b, 12c, 12d) with a transferring surface (3) together with a liquid aggregating phase (9, 20) and according a prefiguration (10, 10b, 18, 56) of said pattern; facing said transferring surface (3) carrying said granular material (12, 12b, 12c, 12d) and said liquid phase (9, 20) to said receiving surface (13) in a transferring zone (15, 45); the method further comprises heating at least one portion of said liquid phase (9, 20) in said transferring zone (15) in order to detach from said transferring surface (3) said granular material (12, 12b, 12c, 12d) and applying the latter on said receiving surface (13).

Classifications:
International (IPC 8-9): B05D1/28 B28B11/00 B28B11/04 B28B11/06 B41M1/22 B41M1/34 B41M3/00 B41M5/00 B44C1/00 G03G15/08 (Advanced/Invention);
B28B11/00 B28B11/04 B41M1/26 B41M5/00 B44C1/00 G03G15/08 (Core/Invention)
International (IPC 1-7): B28B11/00 B28B11/04 B41M1/34
CPC: B28B11/001 B28B11/046 B41M1/22 B41M3/006 B41P2217/56 B28B11/04
European: B28B11/00B B28B11/04 B28B11/04F B41M1/22 B41M3/00P L41P217/560
US: 399/252 399/252P 427/197 427/201 427/204 427/428.06



Family:

Publication number	Publication date	Application number	Application date
BRPI0708105 A2	20110517	BR2007PI08105	20070221
BRPI0708105 B1	20171205	BR2007PI08105	20070221
CN101384405 A	20090311	CN200780006046	20070221
CN101384405 B	20110209	CN200780006046	20070221
DE602007043961 D1	20151231	DE200760043961T	20070221
DE602007053646 D1	20180215	DE200760053646T	20070221
EG25347 A	20111214	EG20080081338	20080805
EP1986830 A2	20081105	EP20070713052	20070221
EP1986830 B1	20151118	EP20070713052	20070221
EP2687347 A2	20140122	EP20130188927	20070221
EP2687347 A3	20140507	EP20130188927	20070221
EP2687347 B1	20180103	EP20130188927	20070221
ES2556250 T3	20160114	ES20070713052T	20070221
ES2658834 T3	20180312	ES20130188927T	20070221
IN03422KN2008 A	20090213	IN2008KN03422	20080821
IN282839 B	20170428	IN2008KN03422	20080821
ITMO20060058 A1	20070822	IT2006MO00058	20060221
ITMO20060059 A1	20070822	IT2006MO00059	20060221
ITMO20060060 A1	20070822	IT2006MO00060	20060221
ITMO20060061 A1	20070822	IT2006MO00061	20060221
ITMO20060135 A1	20071027	IT2006MO00135	20060426
JP2009527374 T2	20090730	JP20080554882T	20070221
KR101395732 B1	20140521	KR20087020468	20070221
KR20080110583 A	20081218	KR20087020468	20070221
MX2008010743 A1	20080901	MX20080010743	20070221
PT1986830 T	20160108	PT20070713052T	20070221
PT2687347 T	20180124	PT20130188927T	20070221
RU2008132681 A	20100327	RU20080132681	20070221
RU2433037 C2	20111110	RU20080132681	20070221
TR201516059 T4	20151221	TR20150016059T	20070221
TR201800556 T4	20180122	TR20180000556T	20070221
US2009010682 AA	20090108	US20070279490	20070221
US8337947 BB	20121225	US20070279490	20070221
VN12043 A1	20131225	VN20080002087	20070221
WO07096746 A2	20070830	WO2007IB00419	20070221
WO07096746 A3	20080529	WO2007IB00419	20070221

Priority:

IT2006MO00058 20060221 IT2006MO00059 20060221 IT2006MO00060 20060221
IT2006MO00061 20060221 IT2006MO00135 20060221 IT2006MO00135 20060426
EP20070713052 20070221 EP20130188927 20070221 WO2007IB00419 20070221

Probable Assignee: SYSTEM SPA

Assignee(s): (std): CAMORANI CARLO ANTONIO ; DI ALGERI MARIS MIRA ; MIRA DI ALGERI MARIS ; RONFLETTE ; SISTEM S P A ; SYS S P A ; SYSTEM SPA

Assignee(s): SYSTEM FIORANO MODENESE SPA ; SYSTEM S P A ; SISTEM SPA

Inventor(s): (std): CAMORANI CARLO ANTONIO ; ANTONIO CAMORANI CARLO ; KAMORANI KARLO ANTONIO ; CARLO ANTONIO CAMORANI

Inventor(s): ANTONIO CARLO CAMORANI

Agent(s): MANITZ FINSTERWALD AND PARTNER GBR; MANITZ FINSTERWALD PATENTANWAELTE PARTMBB; GOTRA STEFANO; CASADEI GIOVANNI; ISERN JORGE; EMIN KORHAN DERICIOGLU; TUGBA GUENDEMIR; PEARNE AND GORDON LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR 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 MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

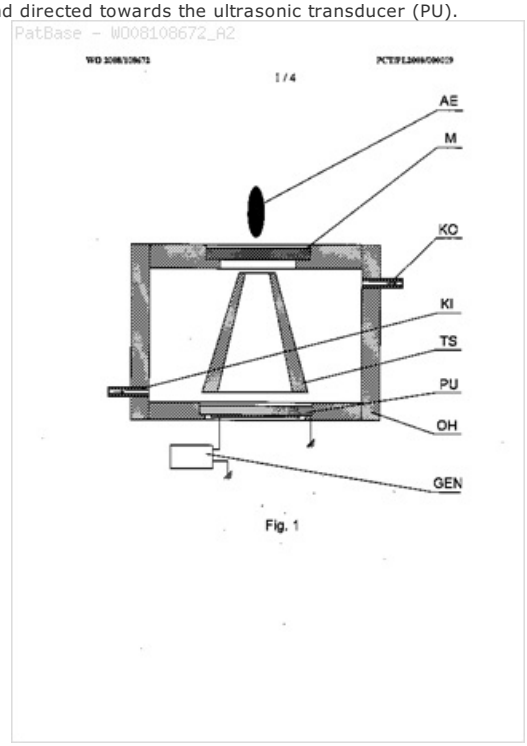
218) Family number: 42149717 (WO08108672A2)

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Title: AN ULTRASONIC NEBULIZER

Abstract: An ultrasonic nebulizer has a hermetic housing (OH) with a flowing liquid which is let in using an inlet ferrule (KI) and let out via an outlet ferrule (KO) and is equipped with a membrane (M) on the opposite side of which is placed an ultrasonic transducer (PU) energized from the ultrasonic power generator (GEN). Ultrasonic wave which is excited by the transducer (PU) propagates in a beam directed towards the membrane (M) thrqugh the cone shaped sleeve (TS) with one open end directed towards the membrane (M) and the other open end directed towards the ultrasonic transducer (PU).

Classifications:
International (IPC 8-9): B05B17/06 (Advanced/Invention); B05B17/04 (Core/Invention)
CPC: B05B17/0615
European: B05B17/06B1



Family:

Publication number	Publication date	Application number	Application date
PL211804 B1	20120629	PL20070381899	20070305
PL381899 A1	20080915	PL20070381899	20070305
WO08108672 A2	20080912	WO2008PL00019	20080305
WO08108672 A3	20081106	WO2008PL00019	20080305

Priority:
PL20070381899 20070305

Probable Assignee: INST OPTYKI STOSOWANEJ

Assignee(s): (std): INST OPTYKI STOSOWANEJ ; JANKOWSKI KRZYSZTOF ; RAMSZA ANDRZEJ ; RESZKE EDWARD

Assignee(s): OPTYKI STOSOWANEJ INST

Inventor(s): (std): JANKOWSKI KRZYSZTOF ; RAMSZA ANDRZEJ ; RESZKE EDWARD

Agent(s): WOZNICKI JERZY

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 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

219) Family number: 31730720 (US2005050993A)

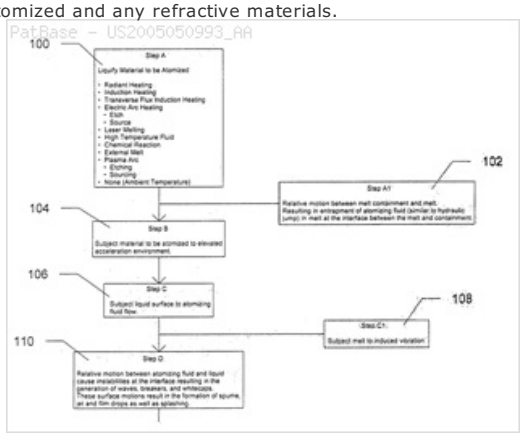
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Title: ATOMIZATION TECHNIQUE FOR PRODUCING FINE PARTICLES

Abstract: This disclosure relates to a novel process for atomizing a liquid material or a mixture of liquid materials. More specifically, this disclosure advances the art by utilizing the inertial forces created in an elevated acceleration environment to further miniaturize and enhance the characteristics of particles resulting from atomization. The key to this disclosure is to subject a melt material to an elevated acceleration and pass a fluid over the surface of the melt. The purpose of the elevated acceleration is to elevate the relative importance of gravitational forces in the melt thus miniaturizing any gravity influenced disturbance. This elevated acceleration environment leads to miniaturization of gravitationally dependent phenomena thus leading to smaller particle creation. The purpose of the atomizing fluid is to impart kinetic energy onto the melt thereby causing disturbances and to act as a heat transfer media to cool the particles. In other words, this disclosure teaches not only utilizing bursting bubbles, surface waves, and splashes to create fine particles by purposely introducing gas flow on the liquid

material(s) to be atomized but further enhancing the process by facilitating that these material(s) are simultaneously at elevated acceleration. The novel aspects of this disclosure significantly enhance the physical characteristics of the resulting particles, by allowing smaller particles to be produced, by cooling the particles more rapidly and by reducing contamination threats by avoiding physical contact between the material(s) being atomized and any refractive materials.

Classifications:
International (IPC 8-9): A62C5/02 B05B1/08 B22F9/08 B22F9/10 (Advanced/Invention); B05B1/24 (Advanced/Non-invention); A62C5/00 B22F9/08 (Core/Invention)
International (IPC 1-7): B05B1/08 B22F9/08
CPC: B22F9/082 B22F9/10 B22F2009/084
European: B22F9/08D B22F9/10 L22F9/08D8
US: 239/10 239/10S 239/13 239/135 239/135S 239/13S 239/224 239/224S 239/398 239/398S 239/418 239/418S 239/8 239/8P 239/9 239/9S 427/421.1 427/421.100S 75/333 75/333S 75/334 75/334S 75/338 75/338P



Family:

Publication number	Publication date	Application number	Application date
CA2538239 AA	20060308	CA20042538239	20040908
EP1663501 A2	20060607	EP20040783373	20040908
EP1663501 A4	20071128	EP20040783373	20040908
IN00571KN2006 A	20070309	IN2006KN00571	20060309
JP2007505218 T2	20070308	JP20060526230T	20040908
US2005050993 AA	20050310	US20030658250	20030909
US2007158450 AA	20070712	US20060526301	20060925
US7131597 BB	20061107	US20030658250	20030909
WO05023431 A2	20050317	WO2004US29089	20040908
WO05023431 A3	20051229	WO2004US29089	20040908
WO08039647 A2	20080403	WO2007US78447	20070914
WO08039647 A3	20080918	WO2007US78447	20070914

Priority:
US20030658250 20030909 WO2004US29089 20040908 US20060526301 20060925

Probable Assignee: SCATTERGOOD JOHN R

Assignee(s): (std): SCATTERGOOD JOHN ; SCATTERGOOD JOHN R

Inventor(s): (std): SCATTERGOOD JOHN R ; SCATTERGOOD JOHN

Agent(s): OGILVY RENAULT LLP SENCRL SRL; JAMES W KAYDEN THOMAS KAYDEN HORSTAMEYER AND RISLEY LLP; THOMAS KAYDEN HORSTEMEYER AND RISLEY LLP; QUALEY PAUL M

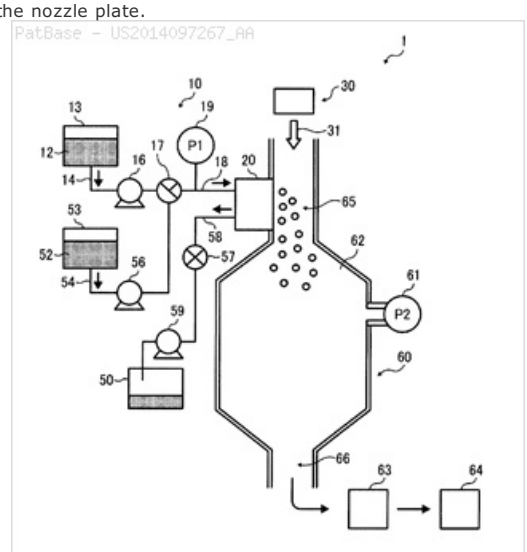
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220) Family number: 56012731 (US2014097267A)

Title: METHOD FOR CLEANING DROPLET EJECTOR, CLEANER FOR CLEANING DROPLET EJECTOR, AND PARTICULATE MATERIAL PRODUCTION APPARATUS USING THE CLEANER

Abstract: A cleaning method for cleaning a droplet ejector, which includes nozzles to eject a particulate material composition liquid, and a nozzle plate bearing the nozzles is provided. The cleaning method includes forming a substantially closed cleaning space outside the nozzles and the nozzle plate; supplying a cleaning liquid to the cleaning space so that the nozzles and the nozzle plate are contacted with the cleaning liquid; and vibrating the cleaning liquid when the nozzles and the nozzle plate are contacted with the cleaning liquid to clean the nozzles and the nozzle plate.

Classifications:
International (IPC 8-9): B01J2/04 B05B15/02 B05B15/55 B05B15/555 B05C11/10 B05C5/00 B08B3/12 B08B9/00 B41J2/165 G03G9/087 G03G9/12 G03G9/13 (Advanced/Invention)
CPC: B41J2/1652 B41J2/16552 G03G9/122 G03G9/132 B05B15/55 B05B15/555
US: 1/1 134/166R 134/22.1 134/99.1 239/106



Family:

Publication number	Publication date	Application number	Application date
DE602013032519 D1	20180301	DE201360032519T	20130912
EP2708361 A1	20140319	EP20130184141	20130912
EP2708361 B1	20180131	EP20130184141	20130912
JP2015027657 A2	20150212	JP20130171571	20130821
JP6195152 B2	20170913	JP20130171571	20130821
US2014097267 AA	20140410	US20130029954	20130918
US2017050204 AA	20170223	US20160344928	20161107
US9539600 BB	20170110	US20130029954	20130918
US10268131 BB	20190423	US20160344928	20161107

Priority:

JP20120204515 20120918 JP20130134148 20130626 JP20130171571 20130821
EP20130184141 20130912 US20130029954 20130918 US20160344928 20161107

Probable Assignee: RICOH CO LTD

Assignee(s): (std): AOKI SHINJI ; KATOH KIYOTADA ; MASUDA MINORU ; MULWA ANDREW MWANIKI ; NORIKANE YOSHIHIRO ; OHGAKI MASARU ; RICOH CO LTD ; TAKAHASHI SATOSHI ; SHITARA YASUTADA ; RICOH KK

Inventor(s): (std): OGAKI TAKASHI ; KATO KIYOMASA ; SHIDARA YASUSADA ; SHITARA YASUTADA ; AOKI SHINJI ; TAKAHASHI SATOSHI ; NORIKANE YOSHIHIRO ; OHGAKI MASARU ; MULWA ANDREW MWANIKI ; MASUDA MINORU ; KATOH KIYOTADA

Inventor(s): SHITARA YASUTADA OHTA KU ; MASUDA MINORU OHTA KU ; AOKI SHINJI OHTA KU ; NORIKANE YOSHIHIRO OHTA KU ; MULWA ANDREW MWANIKI OHTA KU ; OHGAKI MASARU OHTA KU ; KATOH KIYOTADA OHTA KU ; TAKAHASHI SATOSHI OHTA KU

Agent(s): LAMB MARTIN JOHN CARSTAIRS; COOPER AND DUNHAM LLP

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

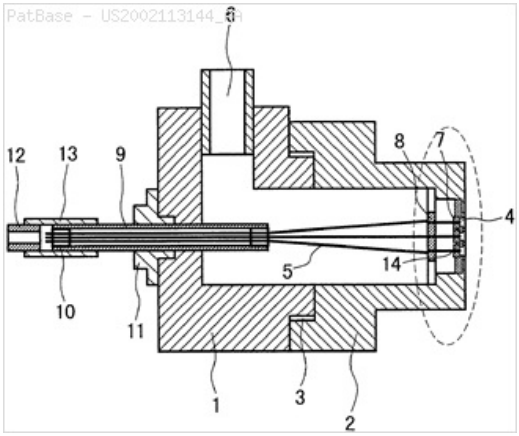
221) Family number: 28230732 (US2002113144A)

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Title: ANALYTICAL APPARATUS USING NEBULIZER

Abstract: Disclosed herein is a nebulizer capable of performing spraying over a wide flow-rate range from a low flow rate to a high flow rate stably and with high efficiency. Further, the present invention provides a supersonic nebulizer capable of improving the efficiency of spraying by a supersonic region spray gas, and a supersonic array nebulizer wherein a plurality of spray units are placed in array form.

Classifications:
International (IPC 8-9): B05B7/04 B05B7/06 B05B7/08 G01N1/00 G01N1/28 G01N21/31 G01N21/71 G01N21/73 G01N27/447 G01N27/62 (Advanced/Invention)
International (IPC 1-7): B05B7/04 B05B7/06 B05B7/08 G01N1/00 G01N1/28 G01N21/31 G01N21/71 G01N21/72 G01N21/73 G01N27/447 G01N27/62
CPC: Y10T436/24 B05B7/0876 B05B7/066 B05B7/0892 G01N21/714
European: B05B7/06C3 B05B7/08C G01N21/71C L05B7/08E
US: 239/418 239/421 239/424 239/424.5 239/424.500P 250/281 250/282 250/288 356/316 422/78 422/80 422/83 422/91 436/171 436/172 436/173



Family:

Publication number	Publication date	Application number	Application date
DE60046845 D1	20120315	DE20006046845	20000906
EP1081487 A2	20010307	EP20000119308	20000906
EP1081487 A3	20030716	EP20000119308	20000906
EP1081487 B1	20120118	EP20000119308	20000906
JP2001070841 A2	20010321	JP19990251225	19990906
JP3925000 B2	20070606	JP19990251225	19990906
US2002113144 AA	20020822	US20010998794	20011203
US6446883 BA	20020910	US20000651132	20000830
US6485689 BA	20021126	US20000657582	20000908
US6499675 BB	20021231	US20010998794	20011203

Priority:

JP19990251225 19990906 US20000651132 20000830 EP20000119308 20000906
US20000657582 20000908 US20010998794 20011203

Probable Assignee: HITACHI LTD

Assignee(s): (std): HITACHI LTD

Inventor(s): (std): HIRABAYASHI TSUDOI ; KO SATOSHI ; HIRABAYASHI ATSUMU ; HUANG MIN

Inventor(s): HUANG MIN HITACHI LTD INTELL PROP GROUP ; HIRABAYASHI ATSUMU HITACHI LTD INTELL PROP GROUP ; HUANG MIN HITACHI LTD INTELL PROP GROUP CHIYODA KU ; HIRABAYASHI ATSUMU HITACHI LTD INTELL PROP GROUP CHIYODA KU

Agent(s): BEETZ AND PARTNER MBB PATENTANWAELTE; BEETZ AND PARTNER

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

222) Family number: 28677735 (US2006054166A)

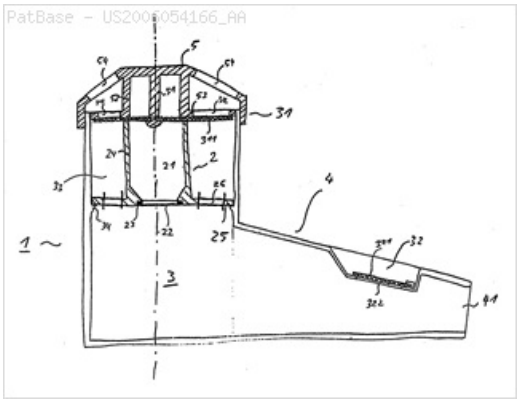
Title: INHALATION NEBULIZER

Abstract: An inhalation nebulizer includes an aerosol generator that has a diaphragm vibrated by a vibration generator. The inhalation nebulizer includes a liquid storage container that is in fluid contact with the diaphragm. A liquid contained in the storage container is atomized into a mixing chamber through openings in the diaphragm and can subsequently be inhaled by a patient.

FDA Data:

Application number	Active ingredient	Proprietary name	Applicant	Date of approval
208437	GLYCOPYRROLATE	LONHALA MAGNAIR KIT	SUNOVION RESP	Dec 5, 2017

Classifications:
International (IPC 8-9): A61K31/40 A61K31/519 A61K31/5513 A61K38/28 A61K45/00 A61K9/12 A61K9/127 A61K9/50 A61K9/51 A61M11/00 A61M11/06 A61M15/00 A61P1/08 A61P11/00 A61P25/04 A61P25/06 A61P25/08 A61P25/20 A61P29/00 A61P3/10 A61P31/04 A61P31/06 A61P35/00 A61P37/02 A61P37/08 A61P5/00 B05B17/06 (Advanced/Invention);
A61M11/00 A61M11/06 A61M15/00 B05B17/04 (Core/Invention)
International (IPC 1-7): A61M11/00 A61M11/06 A61M15/00 B05B1 B05B17/06 B65D1/32
CPC: A61M11/005 A61M15/0015 A61M15/0018 A61M15/0085 B05B17/0646
European: A61M11/00F A61M15/00F B05B17/06B5F K61M15/00A11B K61M15/00A12
US: 128/200.14 128/200.140 128/200.16 128/200.160 239/102.2 239/338



Family:

Publication number	Publication date	Application number	Application date
AT404234 E	20080815	AT20000973900T	20001027
AU200112348 A1	20010606	AU20010012348	20001027
AU200112348 A5	20010606	AU20010012348	20001027
AU200116983 A1	20010514	AU20010016983	20001103
AU200116983 A5	20010514	AU20010016983	20001103
AU781911 B2	20050623	AU20010012348	20001027
CA2389936 AA	20020501	CA20002389936	20001027
CA2389936 C	20070410	CA20002389936	20001027
DE19953317 C1	20010201	DE19991053317	19991105
DE60039902 D1	20080925	DE20006039902	20001027
EP1227856 A1	20020807	EP20000973900	20001027
EP1227856 A4	20070103	EP20000973900	20001027
EP1227856 B1	20080813	EP20000973900	20001027
ES2311475 T3	20090216	ES20000973900T	20001027
JP2003513719 T2	20030415	JP20010536227T	20001027
JP2006122692 A2	20060518	JP20050343334	20051129
JP4589862 B2	20101201	JP20050343334	20051129
NZ518782 A	20031031	NZ20000518782	20001027
US2006054166 AA	20060316	US20050269783	20051107
US6962151 BA	20051108	US20000129498	20001027
WO0132246 A1	20010510	WO2000EP10872	20001103
WO0132246 C1	20011004	WO2000EP10872	20001103
WO0134232 A1	20010517	WO2000US29541	20001027
WO0134232 C1	20031023	WO2000US29541	20001027
WO0134232 C2	20020801	WO2000US29541	20001027

Priority:

DE19991053317 19991105 JP20010536227 20001027 JP20010536227T 20001027
WO2000US29541 20001027 WO2000EP10872 20001103 US20020129498 20020919
US20050269783 20051107

Probable Assignee: PARI PHARMA GMBH

Assignee(s): (std)**:** GALLEM THOMAS ; KELLER MANFRED ; KNOCH MARTIN ; PARI GMBH ; LIENIG EWERT RAINER ; LIENING EWERT RAINER ; PARI GMBH SPEZIALISTEN FUR EFF ; PARI GMBH SPEZIALISTEN F EFFEKTIVE INHALATION ; PARI GMBH SPEZIALISTEN FUER EFFEKTIVE INHALATION ; STANGL ROLAND ; URICH MARKUS ; PRE HOLDING INC ; PARI GMBH SPEZIALISTEN FUR EFFEKTIVE INHALATION ; PARI PHARMA GMBH

Inventor(s): (std)**:** LIENIG EWERT RAINER ; KELLER MANFRED ; KNOCH MARTIN ; STANGL ROLAND ; GALLEM THOMAS ; LIENING EWERT RAINER ; URICH MARKUS ; URICH MARCUS ; MARTIN KNOCH ; MARKUS URICH ; THOMAS GALLEM ; ROLAND STANGL ; RAINER LIENING EWERT ; MANFRED KELLER

Inventor(s): RAINER LIENIG EWERT

Agent(s): WRAYS PTY LTD; WRAYS; BERESKIN AND PARR; HOFFMANN EITLE; TSUTSUI MASATO; YOSHIDA MINORU; SHIOTANI TAKASHI; SEMBA TSUKASA; FURUSAWA HIROSHI; TANAKA TATSUYA; MERCHANT AND GOULD PC

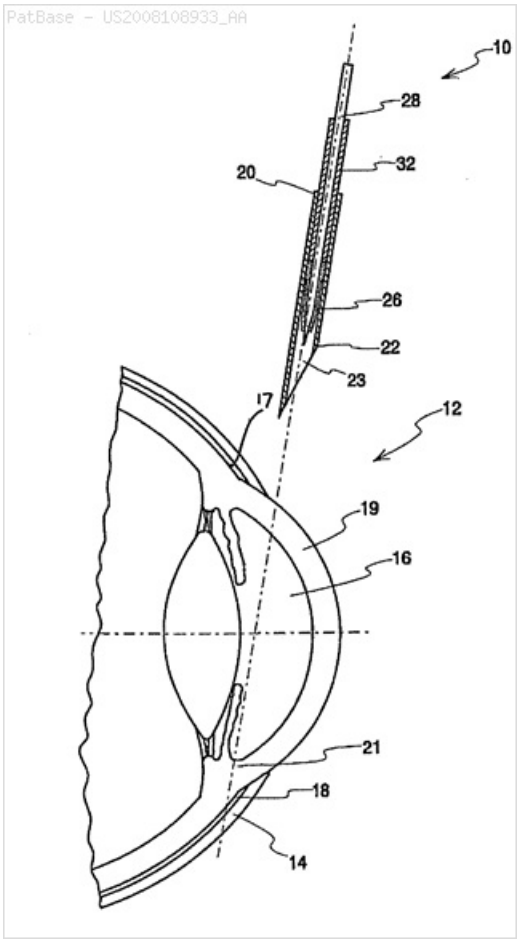
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223) Family number: 41037744 (US2008108933A)

Title: METHODS, SYSTEMS AND APPARATUS FOR RELIEVING PRESSURE IN AN ORGAN

Abstract: Methods, systems and apparatus for relieving pressure in an organ such as, but not limited to, the eye are disclosed. The method includes implanting a bioabsorbable, channel into the selected area of the organ using a delivery apparatus.

Classifications:
International (IPC 8-9): A61F A61F9/00 A61F9/007 A61L31/04 A61M1/00 A61M27/00 B05D1/18 B05D3/02 (Advanced/Invention); A61F9/00 A61M27/00 (Advanced/Non-invention); A61F9/007 A61M1/00 A61M27/00 B05D1/18 B05D3/02 (Core/Invention); A61M27/00 (Core/Non-invention)
CPC: A61L31/16 A61L2300/222 A61L2300/416 A61L2300/42 A61M27/002 A61F9/00781 A61F9/0008 A61L31/045 A61M27/008
European: A61F9/007V A61L31/04F4 A61M27/00C3 K61F9/00B K61M27/00C
US: 128/898 128/898S 427/2.25 427/2.250P 427/2.250S 604/8 604/8P 604/8S 606/108 606/108P 606/108S



Family:

Publication number	Publication date	Application number	Application date
AU2007269259 AA	20080110	AU20070269259	20070629
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CA2655969 AA	20081219	CA20072655969	20070629
CA2655969 C	20141125	CA20072655969	20070629
CA2818558 AA	20130513	CA20112818558	20111115
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EP2043572 A2	20090408	EP20070799201	20070629
EP2043572 B1	20141231	EP20070799201	20070629
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HK1189152 A1	20140530	HK20140102259	20140306
JP2009542370 T2	20091203	JP20090518588T	20070629
JP2014500758 T2	20140116	JP20130538995T	20111115
JP5396272 B2	20140122	JP20090518588T	20070629
US2008108933 AA	20080508	US20070771805	20070629
US2010100104 AA	20100422	US20090620564	20091117
US2010119696 AA	20100513	US20090620557	20091117
US2010121248 AA	20100513	US20090620552	20091117
US2010121249 AA	20100513	US20090620561	20091117
US2011118745 AA	20110519	US20100964298	20101209
US2012197175 AA	20120802	US20110314927	20111208
US9636254 BB	20170502	US20090620564	20091117
WO08005873 A2	20080110	WO2007US72547	20070629
WO08005873 A3	20080724	WO2007US72547	20070629

Priority:

US20060806402P 20060630 EP20070799201 20070629 US20070771805 20070629
WO2007US72547 20070629 US20090620557 20091117 US20090620552 20091117
US20090620561 20091117 US20090620564 20091117 US20100946351 20101115
US20100964298 20101209 WO2011US60806 20111115 US20110314927 20111208

Probable Assignee: AQUESYS INC

Assignee(s): (std): BACHE RONALD D ; CRINGLE STEPHEN ; HORVATH CHRISTOPHER ; LINDSTROM RICHARD L ; MCCREA JAMES ; TRIP ROELOF ; SU ER NING ; YU DAO YI ; MUFSON DANIEL ; MANTRI SURAG ; NGUYEN HOANG

VAN ; TAN COLIN ; YANG YING ; ROMODA LASZLO O ; ANDERSON CORY ; AQUESYS INC

Assignee(s): AQUESYS INC DULUTH ; AQUESYS INC200 - 2760 PREMIER PARKWAYDULUTHGA30097US

Inventor(s): (std): HORVATH CHRISTOPHER ; LINDSTROM RICHARD L ; BACHE RONALD D ; ROMODA LASZLO O ; YANG YING ; CRINGLE STEPHEN ; TAN COLIN ; NGUYEN HOANG VAN ; ANDERSON CORY ; MANTRI SURAG ; MUFSON DANIEL ; YU DAO YI ; SU ER NING ; TRIP ROELOF ; MCCREA JAMES

Inventor(s): SURAG MANTRI ; DAO YI YU ; ER NING SU ; COLIN TAN ; DANIEL MUFSON ; STEPHEN CRINGLE ; JAMES MCCREA ; YING YANG ; CORY ANDERSON ; ROELOF TRIP ; HOANG VAN NGUYEN ; TRIP ROELOFUS ; ANDERSON CORYUS ; CRINGLE STEPHENAU ; YU DAO YIAU ; NGUYEN HOANG VANUS ; MUFSON DANIELUS ; YANG YINGUS ; TAN COLINUS ; MCCREA JAMESUS ; SU ER NINGAU ; MANTRI SURAGUS ; MANTRI SURAG SUNNYVALE ; TRIP ROELOF SUWANEE ; NGUYEN HOANG VAN SAN JOSE ; ANDERSON CORY ALPHARETTA ; MCCREA JAMES BURLINGAME ; YANG YING UNION CITY ; TAN COLIN SUNNYVALE ; MUFSON DANIEL NAPA

Agent(s): CALLINANS; FISHER ADAMS KELLY CALLINANS; SPRUSON AND FERGUSON; DEETH WILLIAMS WALL LLP; MBM INTELLECTUAL PROPERTY LAW LLP; GRAHAM WATT AND CO LLP SEVENOAKS; GEARY STEPHEN; SUER STEVEN JOHANNES; RICKARD DAVID JOHN; ORIENTAL INTELLECTUAL PROPERTY SERVICES CO; COOK ALEX MCFARRON MANZO CUMMINGS AND MEHLER LTD; MCDERMOTT WILL AND EMERY LLP; NATHAN S; MCFARRON GARY W ET AL

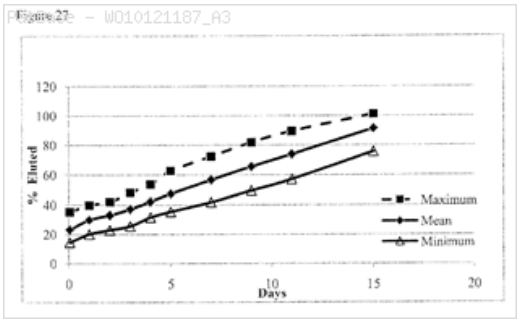
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224) Family number: 44246755 (US2010015200A)

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Title: DRUG DELIVERY MEDICAL DEVICE

Abstract: Provided is a coated implantable medical device, comprising: a substrate; and a coating disposed on said substrate, wherein said coating comprises at least one polymer and at least one pharmaceutical agent in a therapeutically desirable morphology and/or at least one active biological agent and optionally, one or more pharmaceutical carrying agents; wherein substantially all of pharmaceutical agent and/or active biological agent remains within said coating and on said substrate until the implantable device is deployed at an intervention site inside the body of a subject and wherein upon deployment of said medical device in the body of said subject a portion of said pharmaceutical agent and/or active biological agent is delivered at said intervention site along with at least a portion of said polymer and/or a at least a portion of said pharmaceutical carrying agents.



Classifications:

International (IPC 8-9): A61B17/00 A61B17/20 A61B17/22 A61B17/3207 A61F2/00 A61F2/02 A61F2/06 A61F2/28 A61F2/30 A61F2/82 A61F2/86 A61F2/90 A61F2/958 A61K31/20 A61K31/436 A61K31/7088 A61K31/7105 A61K31/715 A61K35/12 A61K38/00 A61K38/17 A61K38/18 A61K38/19 A61K38/22 A61K38/43 A61K48/00 A61K9/00 A61L17/00 A61L17/14 A61L27/04 A61L27/16 A61L27/34 A61L27/50 A61L27/54 A61L27/56 A61L27/58 A61L29/08 A61L29/14 A61L29/16 A61L31/00 A61L31/02 A61L31/06 A61L31/08 A61L31/10 A61L31/12 A61L31/14 A61L31/16 A61L31/18 A61L33/00 A61L33/10 A61M25/00 A61M25/10 A61M31/00 A61M37/00 A61P43/00 A61P7/00 B05D3/00 B05D7/00 (Advanced/Invention); A61B17/00 A61B17/22 A61F2/82 A61K31/436 A61M25/10 (Advanced/Non-invention); A61F2/02 A61F2/06 A61F2/82 A61K31/185 A61K31/7088 A61K31/7105 A61K31/715 A61K35/12 A61K38/17 A61K38/18 A61K38/19 A61K38/22 A61K38/43 A61K48/00 A61K9/00 A61L27/00 A61L33/00 A61M37/00 A61P43/00 B05D7/00 (Core/Invention)

CPC: A61L17/005 A61L17/145 A61L27/50 A61L29/14 A61L31/14 A61L2300/406 A61L27/16 A61L2300/602 A61M25/0045 A61F2/86 A61L2420/02 A61L2420/06 A61L2300/216 A61F2240/001 A61F2250/001 A61L31/022 A61F2002/30535 A61F2250/0058 A61K9/0024 A61K9/0034 A61K31/7088 A61K31/7105 A61K31/715 A61K38/00 A61L31/148 A61L31/08 A61L2300/426 A61L2300/204 A61B2017/00893 A61B2017/22051 A61B2017/22061 A61B2017/22065 A61L2300/416 A61L2300/606 A61M2025/105 C08L67/04 A61L27/34 A61L27/54 A61L29/085 A61L2300/608 A61L2300/63 A61L2420/08 A61L31/06 A61K31/436 A61L2300/604 A61M25/10 A61B17/320725 A61L29/08 A61L29/148 A61L29/16 A61K31/20 A61L31/10 A61F2/82 A61F2210/0004 A61F2250/0067 A61L31/16

European: A61B17/3207E A61F2/82 A61K31/20 A61K31/7088 A61K31/7105 A61K31/715 A61K38/18B A61K38/21A A61K38/22F A61K38/26 A61K38/43 A61L17/00C A61L17/14C A61L27/16 A61L27/34 A61L27/50 A61L27/54 A61L29/08B A61L29/14 A61L29/16 A61L31/02B A61L31/10 A61L31/14 A61L31/16 K61B17/00S21 K61B17/22H K61B17/22H5 K61B17/22H7 K61F2/30A3W K61F2/82 K61F210/00A K61F250/00W K61F250/00W5 K61K9/00M5D K61K9/00M8 K61L300/406 K61L300/416 K61L300/602 K61L300/606 K61L300/608 K61L300/630 K61M25/00S1 K61M25/10 K61M25/10Z3

US: 1/1 424/423 424/423P 424/93.7 424/93.700S 424/94.1 424/94.100S 427/2.21 427/2.25 427/2.250S 514/1.1 514/1.100S 514/12 514/169 514/169S 514/2.3 514/2.300S 514/291 514/291S 514/44.00AS 514/44.00RS 514/44A 514/44R 514/54 514/54S 514/558 514/558S 514/8 604/103.02 604/103.020S 604/22 604/22P 604/509 623/1.42 623/1.420P 623/1.46 623/1.460P 623/1.460S

Family:

Publication number	Publication date	Application number	Application date
AU2009270849 AA	20100121	AU20090270849	20090716
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EP2411083 A4	20131113	EP20100756696	20100323
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EP3366326 A1	20180829	EP20180157461	20100416
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WO10111232 A9	20110303	WO2010US28253	20100323
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WO10121187 A2	20101021	WO2010US31470	20100416
WO10121187 A3	20110331	WO2010US31470	20100416
WO11009096 A1	20110120	WO2010US42355	20100716

Priority:

US20070912408P 20070417 US20070912394P 20070417 US20070981445P 20071019
US20080045928P 20080417 US20080081691P 20080717 US20080104669P 20081010
US20090162558P 20090323 US20090162569P 20090323 US20090165880P 20090401
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US20160284677 20161004 CA20162730995 20161027 US20160366108 20161201
US20180960836 20180424

Probable Assignee: MICELL TECHNOLOGIES INC

Assignee(s): (std)**:** MICELL TECH INC ; MICELL TECHNOLOGIES INC ; TAYLOR DOUGLAS ; NEET JOHN ; MICELL TECHOLOGIES INC ; ZANI BRETT G ; TAYLOR CHARLES DOUGLAS ; MCCLAIN JAMES B

Assignee(s): MICELL SPV I LLC ; HERCULES TECHNOLOGY GROWTH CAPITAL INC ; MICELL TECHNOLOGIES INC801 CAPITOLA DR.DURHAMNC27713US

Inventor(s): (std)**:** MCCLAIN JAMES B ; TAYLOR DOUGLAS ; NEET JOHN ; JOHN NEET ; DOUGLAS TAYLOR ; TAYLOR CHARLES DOUGLAS ; ZANI BRETT G

Inventor(s): MCCLAIN JAMES BUS ; TAYLOR DOUGLASUS ; NEET JOHNUS ; JAMES B MCCLAIN ; MCCLAIN JAMES

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; MBM INTELLECTUAL PROPERTY LAW LLP; WICHMANN HENDRIK; WILSON SONSINI GOODRICH AND ROSATI; LERNER DAVID LITTENBERG KRUMHOLZ AND MENTLIK LLP; ELAMRANI SAMIR ET AL; BRESNAHAN MATTHEW J ET AL

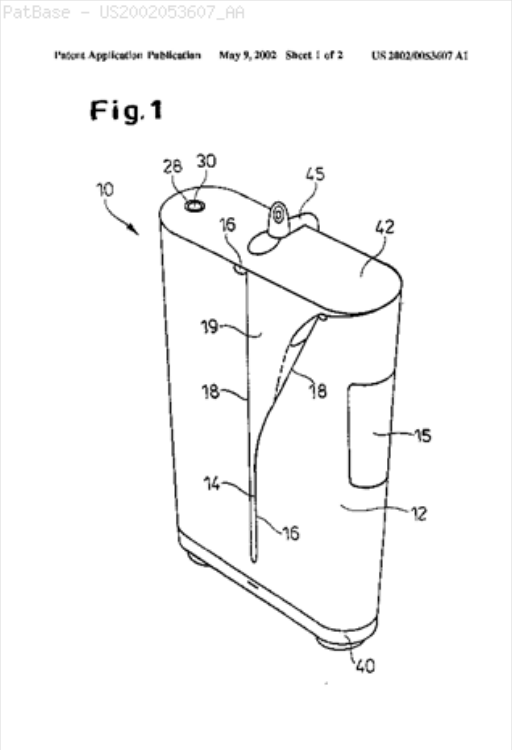
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225) Family number: 28198760 (US2002053607A)

Title: APPARATUS FOR CLEANING AND REFRESHING FABRICS WITH AN IMPROVED ULTRASONIC NEBULIZER, AND IMPROVED ULTRASONIC NEBULIZER

Abstract: One aspect of the present invention is directed to an ultrasonic nebulizer for use in a portable and collapsible cleaning and refreshing apparatus for treating fabric garments. Said ultrasonic nebulizer comprises a housing, said housing being divided into at least two compartments by a membrane, preferably made out of a flexible film, more preferably made out of an inox film, such that at least one compartment is liquid and vapor tight, said nebulizer further comprising at least one piezoelectric vibrator for ultrasonic wave generation and located in said liquid and vapor tight compartment, a high-frequency generator for exciting said piezoelectric vibrator, wherein said liquid or gel medium is heated by a built-in heating means to a temperature of at least 30 degrees centigrade, preferably at least 40 degrees centigrade, more preferably at least 50 degrees centigrade

Classifications:
International (IPC 8-9): B05B17/06 D06F73/02 (Advanced/Invention); D06F73/02 (Advanced/Non-invention)
International (IPC 1-7): B01F3/04 B05B1/08 B05B17/06 D06F73/02
CPC: B05B17/0607 B05B17/0615 D06F73/02
European: B05B17/06B1 D06F73/02 L05B17/06B
US: 239/102.2 239/302 261/81



Family:

Publication number	Publication date	Application number	Application date
AT281550 E	20041115	AT20010962110T	20010810
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US6726186 BB	20040427	US20010928046	20010810
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Priority:
EP20000870179 20000816 EP20010962110 20010810 WO2001US25238 20010810

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE ; VAN HAUWERMEIREN TIM MARIA JOR ; THE PROCTER AND GAMBLE COMPANY ; PROCTER AND GAMBLE CO

Assignee(s): PROCTOR AND GAMBLE CO ; PROCTER AND GAMBLE CO CINCINNATI ; THE PROCTER AND GAMBLE COMPANY CINCINNATI ; THE PROCTER AND GAMBLE CO ; VAN HAUWERMEIREN TIM MARIA JORIS ; DEWAELE JOOST IGNACE ; DEWAELE JOSST IGNACE ; GAALOUL SONIA ; HUBESCH BRUNO ALBERT JEAN

Inventor(s): (std): GAALOUL SONIA ; DEWAELE JOSST IGNACE ; VAN HAUWERMEIREN TIM MARIA JOR ; HUBESCH BRUNO ALBERT JEAN ; DEWAELE JOOST IGNACE ; HAUWERMEIREN TIM MARIA JORIS V ; HUBESCH BRUNO ALBERT ; DAWAELE JOOST IGNACE ; HARWERMEIREN TIM MARIA JORIS V ; VAN HAUWERMEIREN MARIA ; DEWAELE IGNACE ; HUBESCH ALBERT ; HAUWERMEIEREN TIM MARIA JORIS ; TIM MARIA JORIS VAN HARWERMEIREN ; JOOST IGNACE DEWAELE ; VAN HAUWERMEIREN TIM MARIA JORIS ; JOOST IGNACE DAWAELE ; BRUNO ALBERT HUBESCH ; TIM MARIA JORIS VAN HAUWERMEIREN ; SONIA GAALOUL ; HARWERMEIREN SONIA GAALOUL JOO

Inventor(s): SONIA GAALOUL JOOST IGNACE DAWAELE TIM MARIA ; BRUNO ALBERT JEAN HUBESCH ; TIM MARIA JORIS VAN HAUWERMEIEREN ; SONIA GAALOUL JOOST IGNACE DAWAELE TIM MARIA JORIS

Agent(s): PHILLIPS ORMONDE FITZPATRICK; KIRBY EADES GALE BAKER; NAGAI HIROSHI

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

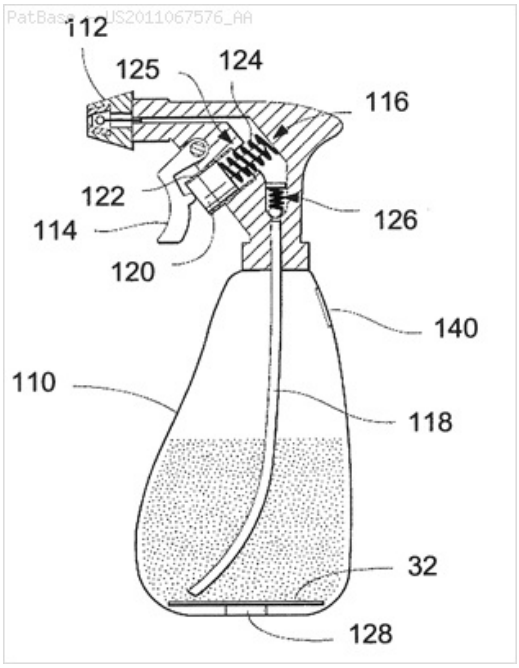
226) Family number: 41788762 (US2011067576A)

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Title: ELECTRICAL APPLIANCES AND COMPONENTS

Abstract: Arrangements are disclosed for sealing and/or retaining a component in a washproof electrical appliance. A heated liquid dispenser is also disclosed.

Classifications:
International (IPC 8-9): A23L2/54 A47J27/00 A47J27/21 A47J31/44 A47J31/56 A47J43/042 B01F15/06 B05B11/00 B05B15/00 B05B7/16 B67D3/00 B67D7/80 H01R13/52 H05B3/26 (Advanced/Invention); A47J27/00 A47J27/21 A47J43/04 B05B11/00 B05B7/16 H01R13/52 (Core/Invention)
CPC: A47J27/004 A47J43/042 A47J43/0711 A47J43/0722 A47J43/0727 A47J31/56 H05B3/262 B67D3/0022 B01F15/06 A47J27/00 H01R13/5202 A47J27/2105 B05B11/0002 B05B11/3057
European: A47J27/00 A47J27/00B A47J27/21B3 A47J43/042 A47J43/07B2 A47J43/07C2 A47J43/07D B05B11/00A H01R13/52B L05B11/30H3F2
US: 222/146.5 222/146.500S 222/236 222/236S 366/146 99/323.1 99/323.100P



Family:

Publication number	Publication date	Application number	Application date
AU2009220993 AA	20090911	AU20090220993	20090305
AU2009220993 BB	20140116	AU20090220993	20090305
CN102015117 A	20110413	CN200980116225	20090305
CN102015117 B	20140219	CN200980116225	20090305
CN102176850 A	20110907	CN200980140414	20090925
CN202154509 U	20120307	CN200920178051U	20091009
CN203245059 U	20131023	CN201120162690U	20091009
EP2252407 A1	20101124	EP20090717154	20090305
EP2346615 A2	20110727	EP20090740919	20090925
EP2769770 A2	20140827	EP20140164285	20090305
EP2769770 A3	20161102	EP20140164285	20090305
GB200804299 A0	20080416	GB20080004299	20080307
GB200818545 A0	20081119	GB20080018545	20081009
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GB2460620 A1	20091209	GB20080004299	20080307
GB2460620 B2	20121212	GB20080004299	20080307
GB2466219 A1	20100616	GB20080022739	20081212
JP2011512978 T2	20110428	JP20100549192T	20090305
US2011067576 AA	20110324	US20090921372	20090305
US2013315028 AA	20131128	US20130953575	20130729
WO09109762 A1	20090911	WO2009GB00613	20090305
WO10040981 A2	20100415	WO2009GB02308	20090925
WO10040981 A3	20100812	WO2009GB02308	20090925

Priority:

GB20080004299 20080307 GB20080018545 20081009 GB20080022739 20081212
EP20090717154 20090305 WO2009GB00613 20090305 WO2009GB02308 20090925
US20100921372 20101206 US20130953575 20130729

Probable Assignee: OTTER CONTROLS LTD

Assignee(s): (std): GAETA ANTONIO MARTIN ; HADFIELD ROBERT HENRY ; MOORE ROBIN KEITH ; OTTER CONTROLS LTD ; SMITH DAVID ANDREW ; WHITE IAN GEOFFREY ; WHITELEY SIMON

Assignee(s): OTTER CONTROLS LIMITED

Inventor(s): (std): ROBIN KEITH MOORE ; GAETA ANTONIO ; SMITH DAVID ; HADFIELD ROBERT ; WHITE IAN ; KEITH MOORE ROBIN ; HENRY HADFIELD ROBERT ; MARTIN GAETA ANTONIO ; SIMON WHITELEY ; GEOFFREY WHITE IAN ; ANDREW SMITH DAVID ; MOORE ROBIN KEITH ; WHITELEY SIMON M ; ROBERT HENRY HADFIELD ; ANTONIO MARTIN GAETA ; DAVID ANDREW SMITH ; IAN GEOFFREY WHITE ; HADFIELD ROBERT HENRY ; GAETA ANTONIO MARTIN ; SMITH DAVID ANDREW ; WHITELEY SIMON ; WHITE IAN GEOFFREY

Inventor(s): SIMON M WHITELEY

Agent(s): ALLENS ARTHUR ROBINSON PATENT AND TRADE MARKS ATTORNEYS; ALLENS PATENT AND TRADE MARK ATTORNEYS; CROSS JAMES PETER ARCHIBALD; CROSS JAMES P A; CROSS JAMES PETER ARCHIBALD ET AL

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

227) Family number: 43706764 (US2009222995A)

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Title: BEDDING APPLICATIONS FOR POROUS MATERIAL

Abstract: Bedding products may utilize unique microporous films imparting bidirectional, micro particle and fluid penetration barrier properties, which may or may not contain active ingredient, while maintaining exceptional air permeability. A thin, microporous film with a unique sponge like cellular structure may prevent the migration of dust mites, dust mite feces, other micro particle allergens, pathogens and biological organisms from the interstices of the product to the sleep surface of the product, adversely affecting user health and comfort. Active ingredients such as anti microbial agents, metal oxides, and other materials may be used within the high capacity microporous structure of the film, and may provide customizable functionalities while maintaining barrier performance and superior air permeability. The micro structured film can be applied as a coating or a laminate to mattress or pillow ticking, a foam mattress construction, a comforter, duvet, mattress pad and/or other components of bedding products.

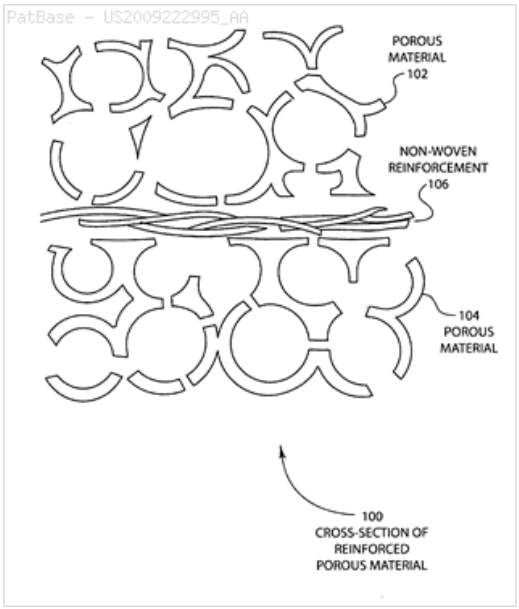
Classifications:

International (IPC 8-9): A47C21/00 A47C23/00 A47C27/00 A47G9/00 A47G9/02 B05D3/00 B29C65/02 (Advanced/Invention); A47C21/00 A47C23/00 A47C27/00 A47G9/00 A47G9/02 B05D3/00 B29C65/02 (Core/Invention)

CPC: A47G9/0253 A47G9/0207 A47G9/0238 A47G9/0261 A47G2009/001 B29C65/14 B29C65/48 B29C65/4815 B29C65/4895 B29C66/305 B29C66/83413 B29K2105/04 B29K2105/0854 B29L2009/00 B29L2031/751 B32B5/18 B32B37/15 B32B2305/026 B32B2305/08 D06M15/248 D06M15/256 D06M15/263 D06M23/04 D06M23/10 D06M23/14 Y10T156/1089 B29C66/727 B29C66/729 B29C66/7294 B32B3/26 B32B3/266 B32B5/022 B32B5/024 B32B5/245 B32B7/08 B32B7/10 B32B7/14 B32B27/065 B32B27/08 B32B27/10 B32B27/12 B32B27/18 B32B27/304 B32B27/308 B32B29/007 B32B2255/10 B32B2255/102 B32B2262/02 B32B2262/06 B32B2262/08 B32B2262/101 B32B2264/10 B32B2266/0235 B32B2266/0242 B32B2307/50 B32B2307/7145 B32B2307/724 B32B2307/7265 B32B2479/00 B29K2027/16 B29C66/436 B29C66/45 B29C65/02 B29C65/08 B29C66/71 B29C66/72343 B29C66/1122 B32B7/05

European: A47G9/02A A47G9/02B A47G9/02B2 A47G9/02B4 B29C66/83413 B32B27/30 B32B37/15 B32B5/18 B32B5/24 D06M15/248 D06M15/256 D06M15/263 D06M23/04 D06M23/10 D06M23/14 K47G9/00B L29C65/14 L29C65/48 L29C66/305 L29C66/83413 L29K105/04 L29K105/08C L29L31/751 L29L9/00 L32B305/02D L32B305/08

US: 156/290 156/290S 156/297 156/297S 427/394 427/394S 5/482 5/482S 5/490 5/490S 5/495 5/495S 5/502 5/502S 5/690 5/690P



Family:

Publication number	Publication date	Application number	Application date
US2009222995 AA	20090910	US20090398438	20090305

Priority:

US20080034135P 20080305 US20090398438 20090305

Probable Assignee: POROUS POWER TECHNOLOGIES LLC F K A PPT OPCO LLC

Assignee(s): (std): BEARD KIRBY ; HAUSER RAY L ; PERRY BERNARD

Assignee(s): POROUS POWER TECHNOLOGIES LLC ; POROUS POWER TECHNOLOGIES LLC (F K A PPT OPCO LLC) ; POROUS POWER TECHNOLOGIES LLC F K A PPT OPCO LLC

Inventor(s): (std): BEARD KIRBY ; HAUSER RAY L ; PERRY BERNARD

Agent(s): POROUS POWER TECHNOLOGIES-CORRESPONDENCE; POROUS POWER TECHNOLOGIES CORRESPONDENCE

228) Family number: 30970767 (US2005263456A)

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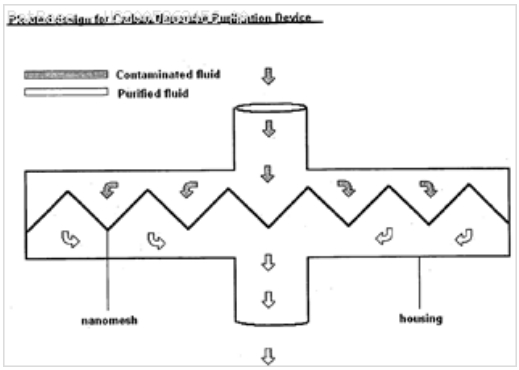
Title: NANOMESH ARTICLE AND METHOD OF USING THE SAME FOR PURIFYING FLUIDS

Abstract: Disclosed herein are articles for removing contaminants from a fluid, such as a liquid or gas, the article comprising carbon nanotubes, which comprise at least one molecule or cluster attached thereto or located therein, wherein the carbon nanotubes are present in the article in an amount sufficient to reduce the concentration of contaminants in fluid that come into contact with the article. A method of making the nanomesh material used in such articles is also disclosed, as are methods of purifying fluids using these articles.

Classifications:

International (IPC 8-9): A61L2/00 A61L2/23 B01D B01D15/00 B01D29/00 B01D35/06 B01D37/00 B01D53/02 B01D53/22

B01D59/26 B01D67/00 B01D69/14 B01D71/02 B01D71/04 B01J20/20 B05D3/06 B05D3/10 B05D3/12 B05D7/00 B32B1/00 B32B15/02 B32B3/26 B32B5/16 B82B B82B1/00 B82B3/00 B82Y40/00 C01B31/02 C02F C02F1/42 C02F1/44 C12H1/044 C12H1/052 D21H D21H13/40 D21H13/50 D21H15/02 (Advanced/Invention); B82B3/00 C02F1/28 (Advanced/Non-invention); A61L2/00 A61L2/16 B01D15/00 B01D53/22 B01D69/00 B01D71/00 B01J20/20 B05D3/06 B05D3/10 B05D3/12 B05D7/00 B82B3/00 C01B31/00 C02F1/44 C12H1/00 D21H13/00 D21H15/00 (Core/Invention); C02F1/28 (Core/Non-invention); B01D B82B C02F D21H (Subclass/Invention)



International (IPC 1-7): B01D15/00 B01D69/14 B01D71/02 C01B31/02 C02F1/44 D21H13/50

CPC: Y10S95/903 Y10S977/70 D21H13/50 B01D39/2058 B01D2239/0478 B01D2239/0492 B01D2239/065 B01D2239/086 B01D2239/1241 D21H13/40 D21H15/02 B01D67/0046 B01J20/28004 B01J20/28007 B01J20/28026 B01J20/28028 B01J20/28033 C02F2101/103 B01D67/0076 B01D2323/34 B01D2323/35 B01D2323/36 B01D2323/46 B01D2325/32 B01D2323/26 B01D2325/26 B01D67/0072 B01D71/022 B01D67/009 B01D71/021 B01D71/04 Y10T428/25 Y10T428/26 Y10T428/2982 Y10T428/2991 Y10T428/249955 Y10T428/249956 Y10T428/249958 Y10T428/249978 Y02W10/37 C01B32/15 A61L2/0082 A61L2/23 A61L2202/22 B01D15/00 B01D53/228 B01D61/425 B01D67/0079 B01D67/0088 B01D69/02 B01D69/04 B01D69/10 B01D69/141 B01D69/148 B01D71/024 B01D71/38 B01D2323/42 B01D2325/40 B01J20/20 B01J20/205 B01J20/324 B01J20/3295 B82Y30/00 C02F1/283 C02F1/288 C02F1/44 C02F2305/08 C12H1/0408 C12H1/0416

European: A61L2/00P4 A61L2/23 B01D15/00 B01D39/20F B01D39/20F2 B01D53/22M B01D61/42B B01D67/00M12 B01D67/00M24 B01D67/00P B01D67/00R14 B01D67/00R16 B01D69/02 B01D69/04 B01D69/10 B01D69/14B B01D69/14B16 B01D71/02C B01D71/02P B01D71/04 B01J20/20 B01J20/20D B01J20/28B4 B01J20/28B4D B01J20/28D12 B01J20/28D16 B01J20/28D24 B01J20/32F4L B01J20/32H8 B82Y30/00 B82Y40/00 C01B31/02B C02F1/28D C02F1/44 C12H1/04B C12H1/04C D21H13/40 D21H13/50 D21H15/02 K61L2/00P4 K61L2/23 K61L202/220 L01D239/04P2 L01D239/04P6 L01D239/06F L01D239/08D L01D239/12K L01D323/42 L01D325/40 L01D71/02C L01D71/04 L01D71/38 M02F1/28D M02F1/28L M02F1/44 M02F101/10B M02F305/08

US: 1/1 210/222 210/222S 210/263 210/266 210/483 210/483S 210/660 210/679 210/683 210/685 210/687 210/688 210/691 210/695 210/748 210/748.01 210/767 210/767S 264/6 427/185 427/185S 427/244 427/289 427/294 427/295 427/296 427/532 427/551 427/551P 427/553 427/553S 427/565 427/565S 428/306.6 428/307.3 428/308.4 428/315.5 428/323 428/332 428/402 428/402S 428/403 428/403S 502/417 502/417S 95/132 95/133 95/134 95/138 95/143 95/57 95/81 95/90 95/903 96/108 977/700 977/742 977/742S 977/745 977/745S 977/748 977/748S 977/890 977/890S

Family:

Publication number	Publication date	Application number	Application date
AT368505 E	20070815	AT20040718476T	20040308
AT474658 E	20100815	AT20040014878T	20040308
CN101351594 A	20090121	CN200680037405	20060901
CN1867392 A	20061122	CN200480010419	20040308
CN1867392 B	20100609	CN200480010419	20040308
DE602004007898 D1	20070913	DE200460007898T	20040308
DE602004007898 T2	20080417	DE200460007898T	20040308
DE602004028298 D1	20100902	DE200460028298T	20040308
DE602006037558 D1	20130919	DE200660037558T	20060901
DE602006044637 D1	20150409	DE200660044637T	20060901
EP1603662 A1	20051214	EP20040718476	20040308
EP1603662 B1	20070801	EP20040718476	20040308
EP1852176 A1	20071107	EP20070014878	20040308
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EP1929087 A2	20080611	EP20060851536	20060901
EP1929087 B1	20130724	EP20060851536	20060901
EP2530200 A1	20121205	EP20120172630	20060901
EP2530200 B1	20150225	EP20120172630	20060901
ES2291859 T3	20080301	ES20040718476T	20040308
ES2537408 T3	20150608	ES20120172630T	20060901
HK1097793 A1	20070706	HK20070105203	20070516
HK1097793 A1	20110114	HK20070105203	20070516
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JP2006524177 T2	20061026	JP20060509181T	20040308
JP2009506973 T2	20090219	JP20080529308T	20060901
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KR101433703 B1	20140827	KR20087007930	20060901
KR20080065270 A	20080711	KR20087007930	20060901
SG165338 A1	20101028	SG20100063709	20060901
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US2008041791 AA	20080221	US20070734858	20070413
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US2014272183 AA	20140918	US20140294666	20140603
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US7211320 BA	20070501	US20040794056	20040308
US7419601 BB	20080902	US20050111736	20050422
US7815806 BB	20101019	US20070734858	20070413
WO04080578 A1	20040923	WO2004US06811	20040308
WO07149109 A2	20071227	WO2006US34225	20060901
WO07149109 A3	20080306	WO2006US34225	20060901

Priority:

US20030452530P 20030307 US20030468109P 20030506 US20030499375P 20030903
EP20040718476 20040308 US20040794056 20040308 WO2004US06811 20040308
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EP20120172630 20060901 US20060514184 20060901 WO2006US34225 20060901
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Probable Assignee: MULTIPURE INT

Assignee(s): (std): HONSINGER CHARLES P ; MULTIPURE INT ; SELDON TECHNOLOGIES LLC ; STAROSTIN MIKHAIL Y ; SELDONTECHNOLOGIES LLC ; SELDON TECHNOLOGIES INC ; COOPER CHRISTOPHER H ; CUMMINGS ALAN G

Assignee(s): ECOGLOBAL HOLDINGS INC ; SELDON TECHNOLOGIES INC WINDSOR ; PEOPLE S UNITED BANK D B A CHITTENDEN BANK ; PEOPLE'S UNITED BANK D B A CHITTENDEN BANK ; SELDON FLUID TECHNOLOGIES INC

Inventor(s): (std): COOPER CHRISTOPHER H ; CUMMINGS ALAN G ; STAROSTIN MIKHAIL Y ; HONSINGER CHARLES P ; COOPER CHRISTOPHER H CUMMINGS ; HONSINGER CHARLES ; CUMMINGS ALAN ; STAROSTIN MIKHAIL ; COOPER CHRISTOPHER

Inventor(s): CUMMINGS ALAN G SO WOODSTOCK ; STAROSTIN MIKHAIL Y HANOVER ; COOPER CHRISTOPHER H WINDSOR ; ALAN G CUMMINGS ; MIKHAIL Y STAROSTIN ; CHRISTOPHER H COOPER ; COOPER CHRISTOPHER H CUMMINGS ALAN G STAROSTIN MIK

Agent(s): ZIMMERMANN AND PARTNER PATENTANWAELTE MBB; HARRIS JENNIFER LUCY; HARRIS JENNIFER LUCY ET AL; ISERN JORGE; WILKINSON AND GRIST; DEACONS; MARKS AND CLERK SINGAPORE LLP; FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER, LLP; FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER LLP; FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER

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 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 YU ZA ZM ZW

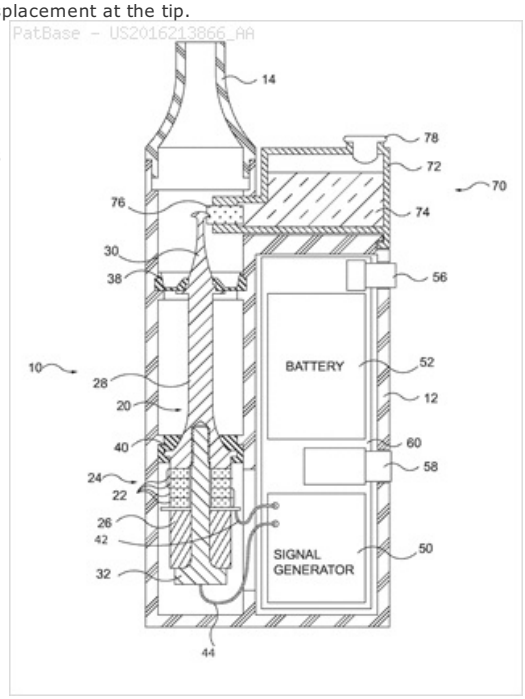
229) Family number: 62988768 (US2016213866A)

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Title: ULTRASONIC VAPORIZING ELEMENT

Abstract: An electronic vaporization device, used for the purpose of inhalation of vapor created by using an ultrasonic signal generator to vaporize a solid or liquid; the apparatus also employs a Langevin transducer, a horn, and a probe, which is attached to the horn and is bent to optimize vibrational amplitude/displacement at the tip.

Classifications:
International (IPC 8-9): A24F A24F47/00 A61M11/00 A61M11/04 A61M15/00 A61M15/06 B05B17/06 B06B1/06
B5B17/06 (Advanced/Invention);
A24F (Subclass/Invention)
CPC: A61M11/005 A61M15/0021 A61M2205/8206 A61M11/042 A61M2205/3693 A24F47/002 A61M15/0085 A61M15/06 B05B17/0623 B05B17/0684 B06B1/0611
US: 1/1 128/200.16



Family:

Publication number	Publication date	Application number	Application date
CA2973880 AA	20170713	CA20162973880	20160123
CN107206198 A	20170926	CN201680006656	20160123
EP3247435 A1	20171129	EP20160740889	20160123
EP3247435 A4	20180725	EP20160740889	20160123
IL253591 A0	20170928	IL20160253591	20160123
IN201727025869 A	20170929	IN201727025869	20170720
JP2018504927 T2	20180222	JP20170558351T	20160123
JP6531183 B2	20190612	JP20170558351T	20160123
KR20170108057 A	20170926	KR20177023261	20160123
US2016213866 AA	20160728	US20160004920	20160123
WO16118941 A1	20160728	WO2016US14646	20160123

Priority:

US20150106852P 20150123 US20150142464P 20150402 US20160004920 20160123
WO2016US14646 20160123

Probable Assignee: WILLIAM TAN

Assignee(s): (std): TAN WILLIAM ; WILLIAM TAN

Inventor(s): (std): TAN WILLIAM ; WILLIAM TAN

Agent(s): RICHES MCKENZIE AND HERBERT LLP; VIERING JENTSCHURA AND PARTNER MBB PATENT U RECHTSANWAELTE; YAMASAKI YUKUZO; AKAMATSU TOSHIAKI; HONG DAVID

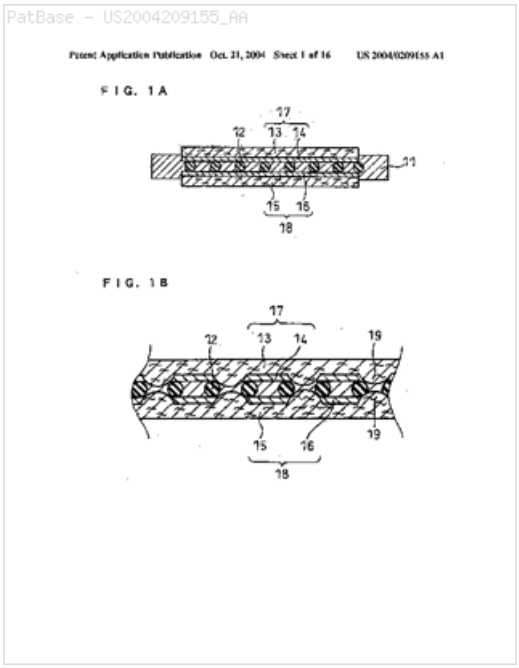
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW 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

230) Family number: 29116775 (US2004209155A)

Title: FUEL CELL, ELECTROLYTE MEMBRANE-ELECTRODE ASSEMBLY FOR FUEL CELL AND MANUFACTURING METHOD THEREOF

Abstract: An electrolyte membrane-electrode assembly for a fuel cell includes a polymer electrolyte membrane and a pair of electrodes sandwiching the electrolyte membrane. Each of the electrodes includes a catalyst layer in contact with the polymer electrolyte membrane and a gas diffusion layer in contact with the catalyst layer, and the polymer electrolyte membrane includes electronically insulating particles, which serve as spacers for separating the gas diffusion layers of the electrodes, in a region sandwiched between the electrodes.

Classifications:
International (IPC 8-9): H01M4/86 H01M4/88 H01M4/92 H01M4/96 H01M8/02 H01M8/10 (Advanced/Invention);
H01M4/86 H01M4/88 H01M8/02 (Advanced/Non-invention);
H01M4/86 H01M4/88 H01M4/90 H01M4/96 H01M8/02 H01M8/10 (Core/Invention)
International (IPC 1-7): B05D5/12 H01M4/86 H01M4/88 H01M4/94 H01M8/02 H01M8/10
CPC: Y02P70/56 H01M8/1004 H01M4/8605 H01M4/881 H01M4/8817 H01M4/92 H01M4/96 H01M8/0234 H01M8/0239 H01M8/0245 H01M8/1023 H01M8/1039 H01M8/1048 H01M8/1053 H01M8/1072 H01M2300/0091
European: H01M4/86B H01M4/88 H01M4/88B4 H01M4/88D H01M4/92 H01M4/96 H01M8/10B2 H01M8/10E2B2 H01M8/10E2D H01M8/10E2F4B H01M8/10E2F6 H01M8/10E2P2 T01M300/00K1 T01M8/02C4C T01M8/02C4F T01M8/02C4K2 Y02E60/52B
US: 427/115 427/115S 429/3 429/30 429/42 429/44 429/483 429/483P 429/492 429/492S 429/532 429/532S 429/534 429/534S 429/535 429/535S 502/101 502/101S



Family:

Publication number	Publication date	Application number	Application date
CA2464326 AA	20040420	CA20032464326	20030320
CN1331264 C	20070808	CN20038001772	20030320
CN1606814 A	20050413	CN20038001772	20030320
EP1429408 A1	20040616	EP20030712819	20030320
EP1429408 A4	20071031	EP20030712819	20030320
JP2003282093 A2	20031003	JP20020084375	20020325
JP2004071324 A2	20040304	JP20020228319	20020806
KR100567487 B1	20060403	KR20047002769	20030320
KR20040029037 A	20040403	KR20047002769	20030320
US2004209155 AA	20041021	US20040760559	20040121
WO03081707 A1	20031002	WO2003JP03479	20030320

Priority:
JP20020084375 20020325 JP20020228319 20020806 WO2003JP03479 20030320

Probable Assignee: MATSUSHITA ELECTRIC INDUSTRIAL CO LTD

Assignee(s): (std): KOSAKO SHINYA ; MATSUSHITA ELECTRIC IND CO LTD ; UCHIDA MAKOTO ; MATSUSHITA ELECTRIC INDUSTRIAL CO LTD

Assignee(s): MATSUSHITA ELECTRIC INDUSTRIAL CO ; MATSUSHITA ELECTRIC IND CO

Inventor(s): (std): KOSAKO SHINYA ; UCHIDA MAKOTO ; SHINYA KOSAKO ; MAKOTO UCHIDA ; MAKOTO KOSAKO SHINYA UCHIDA

Inventor(s): KOSAKO SHINYA UCHIDA MAKOTO

Agent(s): BORDEN LADNER GERVAIS LLP

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

231) Family number: 50074780 (DE202011104249U1)

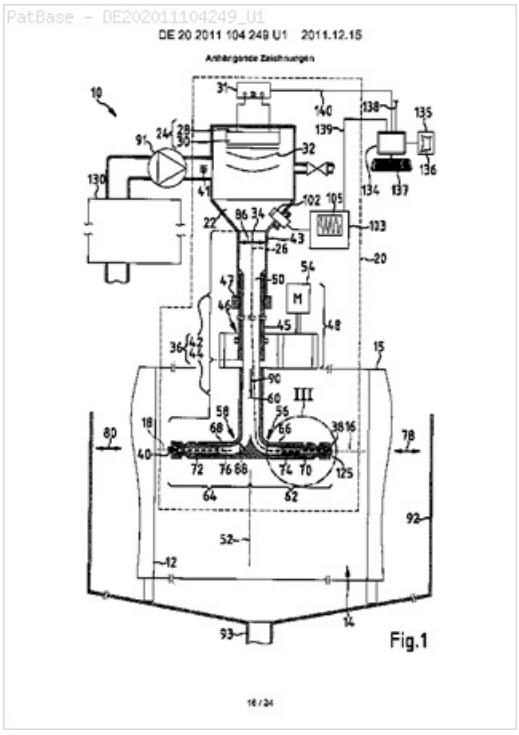
Title: VORRICHTUNG ZUM ERZEUGEN EINES PULSIERENDEN MIT DRUCK BEAUFSCHLAGTEN FLUIDSTRAHLS Apparatus FOR GENERATING A PULSATING PRESSURIZED FLUID BEAM (Machine translation)

Abstract: Source: DE202011104249U1 [DE] Vorrichtung (20) fuer das Erzeugen eines pulsierenden Fluidstrahls (16, 18) aus mit Druck beaufschlagtem Fluid mit einem Leitungssystem (36), das wenigstens eine Duese (38, 40) enthaelt, die einen

Duesenmund (125) hat, aus dem ein pulsierender Fluidstrahl (16, 18) aus mit Druck beaufschlagtem Fluid austreten kann, und mit einer Kammer (22), in der eine Druckwellenerzeugungseinrichtung (24) fuer das Erzeugen von Fluid-Druckwellen (32) ausgebildet ist, die mit dem Leitungssystem (36) durch eine Austrittsoeffnung (34) fuer die erzeugten Fluid-Druckwellen (32) kommuniziert, gekennzeichnet durch eine Einstelleinrichtung (31, 47, 62, 64) fuer das Steuern der Amplitude AP der Fluid-Druckwellen (22) in dem Leitungssystem (36) vor dem wenigstens einen Duesenmund (125) enthaelt, mit der eine aus dem Quotient der Weglaenge L fuer die Fluid-Druckwellen (22) zwischen der Austrittsoeffnung (34) der Kammer (22) und dem wenigstens einen Duesenmund (125) der wenigstens einen Duese (38, 40) in dem Leitungssystem (36) und der Wellenlaenge...

Machine translation: Device (20) for generating a pulsating fluid jet (16, 18) of pressurized fluid to a conduit system (36) containing at least one nozzle (38, 40) having a Duesenmund (125), can escape from the a pulsating fluid jet (16, 18) of pressurized fluid, and with a chamber (22) in which a pressure wave generating means (24) for generating fluid pressure waves (32) is formed, with the piping system (36) by a Austrittsoeffnung (34) for the produced fluid pressure waves (32), characterized by adjusting means (31, 47, 62, 64) for controlling the amplitude AP of the fluid pressure waves (22) in the conduit system (36) before the at least one Duesenmund (125), with the one for the quotient of the path length L is the fluid pressure waves (22) between the Austrittsoeffnung (34) of the chamber (22) and the at least one Duesenmund (125) of at least one nozzle (38, 40) in the conduit system (36) and the wavelength...

Classifications:
International (IPC 8-9): B05B12/06 B08B3/02 (Advanced/Invention)
CPC: B05B17/0623 B05B1/14 B05B5/06 B05B13/0221 B05B13/0271 B05B13/0636 B05B13/069 B05B15/656 B05B17/063 B05B17/0669
European: B05B13/02B8 B05B13/06C1 B05B13/06F B05B15/06B2 B05B17/06B2 B05B17/06B2B B05B17/06B7D L05B1/14 L05B13/02B L05B13/02B99B L05B13/06Y10 L05B17/06B2Y10 L05B17/06B99B20 L05B5/06



Family:

Publication number	Publication date	Application number	Application date
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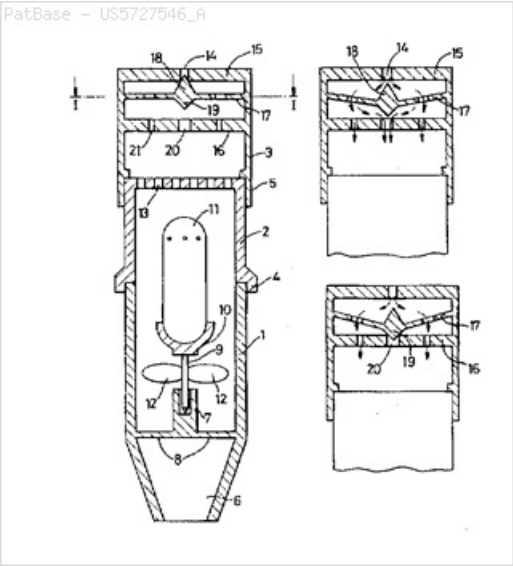
Priority:
DE201120104249U 20110811

Probable Assignee: DUERR ECOCLEAN GMBH
Assignee(s): (std)**:** DUERR ECOCLEAN GMBH

232) Family number: 12483787 (US5727546A)

Title: POWDER INHALER WITH BREATH FLOW REGULATION VALVE

Abstract: PCT No. PCT/GB94/01812 Sec. 371 Date Jul. 17, 1996 Sec. 102(e) Date Jul. 17, 1996 PCT Filed Aug. 18, 1994 PCT Pub. No. WO95/05208 PCT Pub. Date Feb. 23, 1995There is provided a device for the administration of an inhalation medicament, including a body defining a through-going air pathway having a longitudinal axis, an air inlet, an air outlet forming a mouthpiece, means for dispensing medicament into the pathway and air flow regulating means, characterised in that the air flow regulating means includes a movable obstructing means adapted to reduce the cross-sectional area of the pathway at a location between the air inlet and the means for dispensing medicament, and biassing means, whereby the obstructing means is biassed into a first resting position in which the cross-sectional area of the pathway is minimum and is adapted to move against the bias of the biassing means to a second position in which the cross-section area of the pathway is maximum in response to a pressure fall at the moiuthpiece caused by inhalation and is adapted to move further to a third position in which the cross-sectional area of the pathway is less than maximum in response to a greater pressure fall at the mouthpiece caused by inhalation.
Classifications:
International (IPC 8-9): A61M15/00 G05D7/01 (Advanced/Invention)
International (IPC 1-7): A61M15/00 A61M16/00 B05D7/14 B65D83/06 G05D7/01
CPC: A61M15/002 G05D7/0126 A61M15/0028 A61M2202/064 G05D7/0113 G05D7/0133 G05D7/0173
European: A61M15/00C G05D7/01B4 G05D7/01C K61M15/00A13 K61M202/06B
US: 128/200.23 128/203.15 128/203.23 128/203.24 128/205.24



Family:

Publication number	Publication date	Application number	Application date
AT172124 E	19981015	AT19940924346T	19940818
CA2169760 AA	19960216	CA19942169760	19940818
CA2169760 C	20060606	CA19942169760	19940818
DE69413989 D1	19981119	DE19946013989	19940818
DE69413989 T2	19990408	DE19946013989T	19940818
DK0714314 T3	19990623	DK19940924346T	19940818
EP0714314 A1	19960605	EP19940924346	19940818
EP0714314 B1	19981014	EP19940924346	19940818
ES2122319 T3	19981216	ES19940924346T	19940818
FI114448 B	20041029	FI19960000704	19960216
FI960704 A	19960216	FI19960000704	19960216
FI960704 A0	19960216	FI19960000704	19960216
GB9317196 A0	19931006	GB19930017196	19930818
GB9317197 A0	19931006	GB19930017197	19930818
GB9317198 A0	19931006	GB19930017198	19930818
JP3545764 B2	20040721	JP19950506842T	19940818
JP9501581 T2	19970218	JP19950506842T	19940818
NO312436 B1	20020513	NO19960000610	19960215
NO960610 A	19960328	NO19960000610	19960215
NO960610 A0	19960215	NO19960000610	19960215
NO960610 L	19960328	NO19960000610	19960215
SG82544 A1	20010821	SG19960007254	19940818
US5727546 A	19980317	US19960596311	19960717
US6109261 A	20000829	US19980006725	19980114
WO9505208 A1	19950223	WO1994GB01812	19940818

Priority:

GB19930017196 19930818 GB19930017197 19930818 GB19930017198 19930818
WO1994GB01812 19940818 US19960596311 19960717 US19980006725 19980114

Probable Assignee: FISONS LTD

Assignee(s): (std): CLARKE ALASTAIR ROBERT ; FISONS PLC ; SLEATH CLIVE ; SHEPHERD MICHAEL TREVOR

Assignee(s): FISONS PLC IPSWICH SUFFOLK GB ; FISONS PLC FISON HOUSE PRINCES STREET IPSWICHSUFFO ; FISONS LTD

Inventor(s): (std): CLARKE ALASTAIR ROBERT ; SLEATH CLIVE ; SHEPHERD MICHAEL TREVOR ; CLARKE ALASTAIR ROBERT WESTOBY ; MICHAEL TREVORS SHEPHERD ; CLIVE SLEATH ; ALASTAIR ROBERT CLARKE ; SHEPHERD MICHAEL TREVOR CHAVEN

Inventor(s): CLARKE ALASTAIR ROBERT 22 WESTOBY CLOSE LEICESTERSHIRE LE12 9SS GB ; SHEPHERD MICHAEL TREVOR 59 CHAVENEY ROAD LEICESTERSHIRE LE12 8AB GB ; CLARKE ALASTAIR ROBERT 22 WESTOBY CLOSE ; SHEPHERD MICHAEL TREVOR 59 CHAVENEY ROAD LEICESTER ; CLARKE ALASTAIR ROBERT 22 WESTOBY CLOSE LEICESTERS ; SLEATH CLIVE LEICESTERSHIRE LE12 7JQ GB ; SHEPHERD MICHAEL TREVOR 59 CHAVENEY ; CLARKE ALASTAIR ROBERT 22 WESTOBY CL

Agent(s): RIDOUT AND MAYBEE LLP

Designated states: AT BE CA CH DE DK ES FI FR GB GR IE IT JP LI LU MC NL NO PT SE US

233) Family number: 42980789 (US2010316576A)

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Title: AEROSOLS FOR SINUNASAL DRUG DELIVERY

Abstract: A pharmaceutical aerosol is disclosed which is suitable for delivering an active compound to the mucosa of the nose, the osteomeatal complex or a paranasal sinus. The pressure of the aerosol is not constant, but pulsates at a frequency from about 10 to 90 Hz. The aerosol is further characterised in that it exhibits a low effective flow rate of less than about 5 litres per minute. The aerosol is, inter alia, suitable for the prevention, management, or treatment of a disease, symptom, or condition affecting the nose or the paranasal sinuses, such as acute and chronic sinusitis.

Classifications:

International (IPC 8-9): A01N25/02 A61K31/5383 A61K31/7052 A61K47/02 A61K9/00 A61K9/12 A61M11/00 A61M15/00 A61M31/00 A61P11/00 A61P11/02 A61P11/04 A61P11/06 A61P43/00 B05B17/06 B05B3/00 B05C11/02 B65D83/14

C07H17/00 (Advanced/Invention);
A61M15/00 C07H17/00 (Advanced/Non-invention);
A61K9/00 A61M11/00 A61M15/00 B05B3/00 B05C11/02 B65D83/14 (Core/Invention)
International (IPC 1-7): A61K9/00 A61M11/00 A61M15/00
CPC: A61K9/008 A61M15/0085 A61K31/7052 A61K9/0043 A61M11/00 A61M11/005 A61K9/0078
European: A61K9/00M20B5 A61K9/00M20B6 K61M15/00F
US: 128/200.14 128/200.16 128/200.160S 128/200.23 128/200.230S 424/43 424/43P 514/29

Family:

Publication number	Publication date	Application number	Application date
AU2008291328 AA	20090305	AU20080291328	20080829
AU2008291328 AH	20100304	AU20080291328	20080829
AU2008291328 BB	20131031	AU20080291328	20080829
CA2693078 AA	20090305	CA20082693078	20080829
CA2693078 C	20160119	CA20082693078	20080829
CN101815503 A	20100825	CN200880103325	20080829
DE602008041455 D1	20160114	DE200860041455T	20080829
EP2030644 A1	20090304	EP20070017094	20070831
EP2194966 A1	20100616	EP20080801768	20080829
EP2194966 B1	20151202	EP20080801768	20080829
ES2556229 T3	20160114	ES20080801768T	20080829
IN00123KN2010 A	20100430	IN2010KN00123	20100112
JP2010536519 T2	20101202	JP20100522253T	20080829
JP2014158965 A2	20140904	JP20140096111	20140507
JP5827802 B2	20151202	JP20100522253T	20080829
MX2010002170 A1	20100322	MX20100002170	20080829
RU2010107893 A	20111010	RU20100107893	20080829
US2010316576 AA	20101216	US20080675257	20080829
US2014366872 AA	20141218	US20140470197	20140827
US8852557 BB	20141007	US20080675257	20080829
US9744314 BB	20170829	US20140470197	20140827
WO09027095 A1	20090305	WO2008EP07090	20080829
WO09027095 A4	20090514	WO2008EP07090	20080829

Priority:

EP20070017094 20070831 EP20080801768 20080829 JP20100522253 20080829
JP20100522253T 20080829 WO2008EP07090 20080829 US20100675257 20100429
US20140470197 20140827

Probable Assignee: PARI PHARMA GMBH

Assignee(s): (std): KELLER MANFRED ; LUBER MARTIN ; PARI PHARM GMBH ; PARI PHARMA GMBH ; ZIMMERMANN JOHANN ; SCHUSCHNIG UWE ; BOEHM ANDREAS

Assignee(s): BOHM ANDREAS

Inventor(s): (std): KELLER MANFRED ; ZIMMERMANN JOHANN ; BOEHM ANDREAS ; SCHUSCHNIG UWE ; LUBER MARTIN ; UWE SCHUSCHNIG ; MARTIN LUBER ; ANDREAS BOEHM ; JOHANN ZIMMERMANN ; MANFRED KELLER ; BOHM ANDREAS

Inventor(s): ZIMMERMAN JOHANN ; ANDREAS BOHM

Agent(s): SPRUSON AND FERGUSON; TEITELBAUM AND MACLEAN; TEITELBAUM BOUEVITCH AND MCLACHLEN; BECKMANN CLAUS ET AL; BECKMANN CLAUS; LEHMANN MARIA ISABEL; EDWARDS ANGELL PALMER AND DODGE LLP; PETER F; EDWARDS WILDMAN PALMER LLP; MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO PC

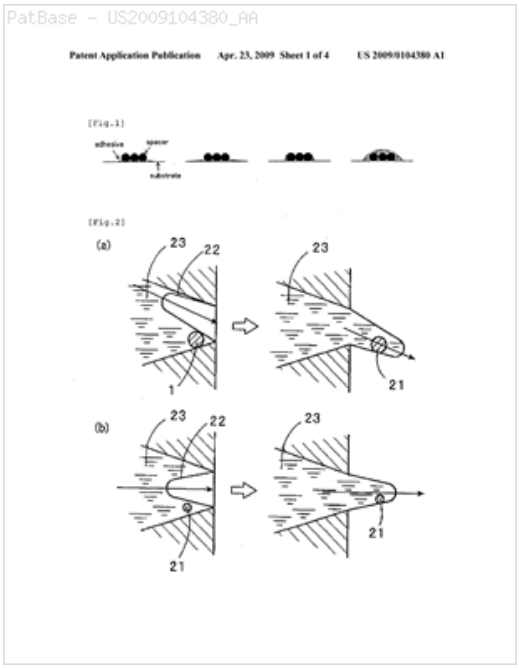
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234) Family number: 33901792 (US2009104380A)

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Title: PRODUCTION METHOD OF LIQUID CRYSTAL DISPLAY UNIT AND SPACER PARTICLE DISPERSION LIQUID

Abstract: It is an object of the invention to provide a method of producing a liquid crystal display device which comprises steps of depositing droplets of a spacer particle dispersion at prescribed positions on a substrate by ejecting the spacer particle dispersion with an ink-jet apparatus, then drying the droplets, and thereby arranging the spacer particles on the substrate, which may arrange the spacer particles precisely at prescribed positions, and a spacer particle dispersion preferably usable for the method of producing a liquid crystal display device. A method of producing a liquid crystal display device, which comprises a step of ejecting a droplet of a spacer particle dispersion with an ink-jet apparatus, depositing the droplet at a prescribed position on a substrate, then drying the droplet, and thereby arranging the spacer particle on the substrate, the spacer particle dispersion comprising a spacer particle, an adhesive component and a solvent, the spacer particle after the drying being arranged in a narrower region than the diameter of the droplet of the spacer particle dispersion deposited on the substrate.
Classifications:
International (IPC 8-9): B05D5/12 C08L37/00 C09D11/10
C09K19/02 G02F1/1339 (Advanced/Invention);
G02F1/1339 (Advanced/Non-invention);
B05D5/12 C08L37/00 C09D11/10 C09K19/02
G02F1/13 (Core/Invention)
CPC: Y10T428/1077 G02F1/13394 C09J133/062
European: C09J133/06B G02F1/1339B
US: 106/31.13 106/31.130S 427/58 427/58S 428/1.54 428/1.540P
524/548 524/548S



Family:

Publication number	Publication date	Application number	Application date
CN101185018 A	20080521	CN200680018328	20060529
CN101185018 B	20110202	CN200680018328	20060529
JP2006126713 A1	20081225	JP20060534494T	20060529
JP3924587 B1	20070606	JP20060534494T	20060529
JP3924587 B2	20070606	JP20060534494T	20060529
KR20080011381 A	20080204	KR20077025189	20060529
TW200710520 A	20070316	TW20060118942	20060529
TWI302223 B	20081021	TW20060118942	20060529
US2009104380 AA	20090423	US20060921002	20060529
WO06126713 A1	20061130	WO2006JP310693	20060529

Priority:

JP20050156416 20050527 JP20050352546 20051206 JP20050352547 20051206 WO2006JP310693 20060529

Probable Assignee: SEKISUI CHEMICAL CO LTD

Assignee(s): (std)**:** SEKISUI CHEMICAL CO LTD ; UEDA MICHIHISA ; UEMATSU YASUSHI ; WAKIYA TAKESHI ; ITO KAZUSHI ; NAGAI YASUHARU

Assignee(s): SEKISUI CHEMICAL CO

Inventor(s): (std)**:** UEDA MICHIHISA ; NAGAI YASUHARU ; WAKIYA TAKESHI ; UEMATSU YASUSHI ; ITO KAZUSHI ; YASUSHI UEMATSU ; MICHIHISA UEDA ; TAKESHI WAKIYA ; KAZUSHI ITO ; YASUHARU NAGAI

Agent(s): YASUTOMI YASUO; WENDEROTH LIND AND PONACK LLP

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

235) Family number: 53008793 (US2013040229A)

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Title: METHOD OF MAKING COHESIVE CARBON ASSEMBLY AND ITS APPLICATIONS

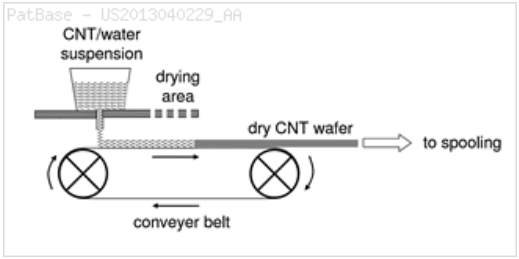
Abstract: Cohesive carbon assemblies are prepared by obtaining a functionalized carbon starting material in the form of powder, particles, flakes, loose agglomerates, aqueous wet cake, or aqueous slurry, dispersing the carbon in water by mechanical agitation and/or refluxing, and substantially removing the water, typically by evaporation, whereby the cohesive assembly of carbon is formed. The method is suitable for preparing free-standing, monolithic assemblies of carbon nanotubes in the form of films, wafers, discs, fiber, or wire, having high carbon packing density and low electrical resistivity. The method is also suitable for preparing substrates coated with an adherent cohesive carbon assembly. The assemblies have various potential applications, such as electrodes or current collectors in electrochemical capacitors, fuel cells, and batteries, or as transparent conductors, conductive inks, pastes, and coatings.

Classifications:

International (IPC 8-9): B05D5/12 C01B31/02 C01B32/166 C01B32/174 C07C231/00 C07C233/00 C07C233/64 C07C51/00 C07C63/33 C07C69/00 H01G11/32 H01G9/042 H01M4/04 H01M4/583 H01M4/64 H01M4/66 H01M4/88 H01M4/96 (Advanced/Invention); B82Y30/00 B82Y40/00 B82Y99/00 H01M4/64 H01M4/88 (Advanced/Non-invention)

CPC: C01B31/0246 B82Y30/00 B82Y40/00 C01B32/166 H01G11/32 H01M4/0402 H01M4/583 H01M4/663 H01M4/8825 H01M4/8875 H01M4/96 Y02E60/13 Y10T428/26 C01B32/174 C01B2202/02 C01B2202/22 C07C69/00 C07C233/00 H01M4/64 H01M4/8807 Y02E60/50

US: 1/1 361/503 423/445R 423/447.1 427/122 428/332 429/245 429/532 560/1 562/405 564/123 564/180 977/745 977/842 977/948



Family:

Publication number	Publication date	Application number	Application date
US2013040229 AA	20130214	US20120572514	20120810
US2015344309 AA	20151203	US20150825021	20150812
US2015344410 AA	20151203	US20150824968	20150812
US2019002290 AA	20190103	US20180125612	20180907
US9136536 BB	20150915	US20120572514	20120810
US9731972 BB	20170815	US20150824968	20150812
US10093544 BB	20181009	US20150825021	20150812
US10392255 BB	20190827	US20180125612	20180907

Priority:

US20110523125P 20110812 US20120572514 20120810 US20150825021 20150812
US20150824968 20150812 US20180125612 20180907

Probable Assignee: YAZAKI CORP

Assignee(s): (std)**:** BRAHIM SEAN IMTIAZ ; GRIGORIAN LEONID ; YAZAKI CORP

Inventor(s): (std)**:** BRAHIM SEAN IMTIAZ ; GRIGORIAN LEONID

Agent(s): VIOLA T; PERKINS COIE LLP; KUNG VIOLA T

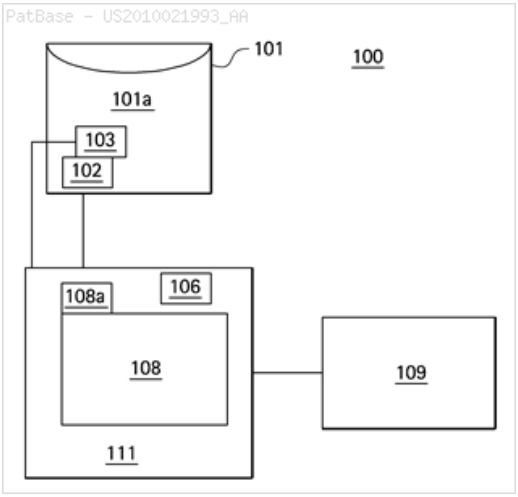
236) Family number: 42396795 (US2010021993A)

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Title: SYSTEM FOR ASSEMBLING AND UTILIZING SENSORS IN CONTAINERS

Abstract: A system for measuring parameters in a container is disclosed. A container has a solution. A protective layer is deposited over at least one sensor and at least one wall of the container, where the protective layer is attached to the wall of the container to form a seal between the container and the at least one sensor. The at least one sensor is configured to have an operable electromagnetic field based on a thickness of the container and the protective layer. The at least one sensor in conjunction with a tag is in proximity to an impedance analyzer and a reader that constitute a measurement device. The at least one sensor is configured to determine at least one parameter of the solution. The tag is configured to provide a digital ID associated with the at least one sensor, where the container is in proximity to the reader and an impedance analyzer. The impedance analyzer is configured to receive a given range of frequencies from the at least one sensor based on the measured complex impedance over the given range of frequencies.

Classifications:
International (IPC 8-9)**:** A61B5/00 B05D5/12 B32B37/00 B32B38/00 C12M1/36 G01N22/00 G01N27/00 G01N27/02 G01N33/00 G01R27/28 G01V15/00 G01V3/00 G06K19/077 G08C17/00 H04Q5/22 (Advanced/Invention);
A61B5/00 B05D5/12 B32B37/00 B32B38/00 C12M1/36 G01N22/00 G01N27/02 G01N33/00 G01V15/00 G01V3/00 G06K19/077 G08C17/00 H04Q5/00 (Core/Invention)
International (IPC 1-7)**:** A61B5/00 G01N27/02 G06K19/077
CPC: Y10T156/10 B01L3/5457 B01L3/50853 B01L3/5453 B01L2200/143 B01L2300/022 B01L2300/046 B01L2300/0627 B01L2300/0887 G01N27/021
European: B01L3/50853 B01L3/5453 B01L3/5457 G01N27/02B L01L200/14C L01L300/02A2 L01L300/04B L01L300/06B L01L300/08F
US: 156/242 156/242S 156/60 156/60S 156/73.1 156/73.100S 324/649 324/649P 340/10.41 340/10.410S 427/58 427/58S 435/286.1 435/286.100P 702/19 702/19S 73/53.01 73/53.010S



Family:

Publication number	Publication date	Application number	Application date
BRPI0718971 A2	20140128	BR2007PI18971	20071120
BRPI0718971 B1	20190416	BR2007PI18971	20071120
CA2669224 AA	20090511	CA20072669224	20071120
CN101583866 A	20091118	CN200780043014	20071120
CN101583866 B	20161109	CN200780043014	20071120
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EP2084521 B1	20180620	EP20070873622	20071120
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IN299325 B	20180803	IN2009DN02829	20090429
JP2010510523 T2	20100402	JP20090538484T	20071120
JP2014132273 A2	20140717	JP20140042368	20140305
RU2009115832 A	20101227	RU20090115832	20071120
RU2012113401 A	20131020	RU20120113401	20120409
RU2457472 C2	20120727	RU20090115832	20071120
RU2606170 C2	20170110	RU20120113401	20120409
US2010021993 AA	20100128	US20070447031	20071120
US2012206155 AA	20120816	US20120452467	20120420
WO08127429 A2	20081023	WO2007US85199	20071120
WO08127429 A3	20081224	WO2007US85199	20071120

Priority:

US20060866714P 20061121 JP20090538484 20071120 JP20090538484T 20071120
US20070447031 20071120 WO2007US85199 20071120 US20090447031 20090424
RU20090115832 20090428 US20120452467 20120420

Probable Assignee: GE HEALTHCARE BIO SCIENCES CORP

Assignee(s): (std)**:** DZHI I KHELTKER BIO SAJENSIZ KORP ; GE HEALTHCARE BIO SCIENCES ; GE HEALTHCARE BIO

SCIENCES CORP ; GE HEALTHCARE BIOSCIENCE CORP ; PIZZI VINCENT F ; WANG HUA ; RICE STEVEN T ; POTYRAILO RADISLAV A

Inventor(s): (std): POTIRAJLO RADISLAV A ; RAJS STIVEN T ; PITSTSI VINSENT F ; VANG KHUA ; HUA WANG ; POTYRAILO RADISLAV A ; PIZZI VINCENT F ; RICE STEVEN T ; WANG HUA ; VINCENT F PIZZI ; RADISLAV A POTYRAILO ; STEVEN T RICE

Agent(s): FETHERSTONHAUGH AND CO; STAVBOM ELLEN ELISABET; BRANN AB; CHIBA AKIO; ONO SHINJIRO; TOMITA HIROYUKI; SHAMOTO ICHIO; OHTSUKA TAKAHIKO; KOBAYASHI YASUSHI; YAMAMOTO OSAMU; NAKAMURA SHOGO; TAKEUCHI SHIGEO; GE HEALTHCARE BIO SCIENCES CORP PATENT DEPARTMENT; BENTLEY DWAYNE L ET AL

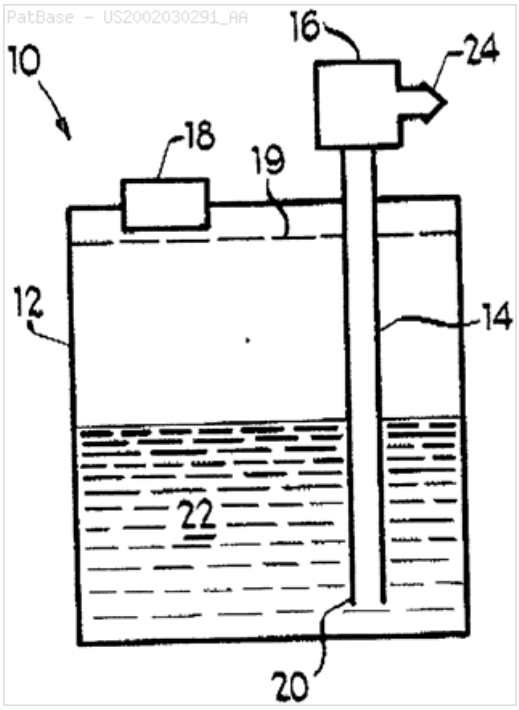
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237) Family number: 52210798 (US2002030291A)

© PatBase

Title: AUTOMATIC CYCLIC FLUID DELIVERY DEVICE AND ASSOCIATED PROCESS

Abstract: A fluid delivery device comprising a container for holding a predetermined quantity of fluid, means for generating gas within the container and means for cyclically dispensing fluid at predetermined intervals out of the container. One means for generating gas within the container comprises a gas generating cell. One means for cyclically dispensing fluid at predetermined intervals comprises a one-way pressure relief valve.



Classifications:

International (IPC 8-9): A01K1/03 A01K13/00 A01K15/02 A01K67/00 A01M1/20 A01M29/00 A01M29/12 A24F25/00 A61D7/00 A61F13/00 A61K9/22 A61L9/00 A61L9/01 A61L9/015 A61L9/02 A61L9/03 A61L9/04 A61L9/12 A61L9/14 A61N1/00 A61N1/08 A61N1/18 A61N1/36 A62C13/62 B01F3/04 B01J7/02 B05B1/30 B05B17/06 B05B7/00 B05B7/26 B05B9/00 B05B9/04 B65D83/00 C25B1/02 C25B9/00 C25C7/00 C25D17/00 C25F7/00 G06N3/06 H01M12/06 H01M14/00 H01M2/02 H01M2/08 H01M2/12 H01M4/58 H01M4/583 H01M4/86 H01M4/88 (Advanced/Invention);
A45D34/02 A61N1/05 B05B7/00 (Advanced/Non-invention);
A01K1/02 A01K15/00 A01K67/00 A01M1/20 A24F25/00 A61L9/015 A61L9/04 A61L9/12 A61L9/14 A61N1/00 A61N1/18 A61N1/36 A62C13/00 B01J7/00 B05B17/04 B65D83/00 C25B1/00 C25B9/00 C25C7/00 C25D17/00 C25F7/00 G06N3/00 H01M12/00 H01M14/00 H01M2/02 H01M2/08 H01M2/12 H01M4/58 H01M4/86 H01M4/88 (Core/Invention);
A45D34/00 A61N1/05 (Core/Non-invention);
A61N (Subclass/Invention)

International (IPC 1-7): A01G27/00 A01K67/00 A01M1/20 A24F25/00 A61F13/00 A61K9/22 A61L9/00 A61L9/01 A61L9/015 A61L9/03 A61L9/04 A61L9/12 A61L9/14 A61M1/00 A61M11/00 A61M25/00 A61M37/00 A61M5/32 A61N1/00 A61N1/18 A61N1/36 A62C13/62 A62C13/66 B01F3/04 B05B1/00 B05B1/14 B05B1/30 B05B11/02 B05B17/06 B05B7/26 B05B9/04 B67D5/54 C25B1/02 C25B9/00 C25C7/00 C25D17/00 C25F7/00 H01M14/00 H01M2/08 H01M2/12

CPC: A01M29/00 A61L9/04 A01M1/2055 A61L9/048 A01M1/205 A45D34/02 A61L9/145 A61L9/02 A61N1/36017 Y10S261/65 Y10S261/88 Y10S261/89 A01K15/021 A01K1/031 A61N1/0529 G06N3/061 A01M1/2038 A01M1/2033 A01M1/2044 A01M1/2072 A01M1/2077 A01M29/12 A61L9/03 A61L9/042 A61L9/12 B05B1/3006 B05B7/0075 B05B9/002 B05B9/04 A61L9/037 A61L9/122 A61L9/127 A61L9/14 H01M4/244 H01M2/0222 H01M4/583 H01M4/621 H01M10/0427 H01M10/26 H01M12/06 A61L2209/133

European: A01K1/03A A01K15/02A A01M1/20C2F A01M1/20C2H A01M1/20C2L A01M1/20C2L2 A01M1/20C2S A01M1/20C4F A01M1/20C4G A01M29/00 A01M29/12 A61L2/22 A61L9/02 A61L9/03 A61L9/03W A61L9/04 A61L9/04B A61L9/04G A61L9/12 A61L9/12F A61L9/12W A61L9/14 A61L9/14L A61N1/36 A61N1/36Z B05B1/30A B05B9/00A B05B9/04 G06N3/06B H01M10/04C2 H01M10/26 H01M12/06 H01M2/02B7B H01M4/24C H01M4/583 H01M4/62B K45D34/02 K61N1/05K1 L05B7/00D Y02E60/12D Y02E60/12H

US: 128/200.14 128/200.140S 128/200.16 128/200.160P 204/252 204/263 204/266 204/282 204/295 205/637 205/637S 222/1 222/146.5 222/386.5 222/399 222/494 222/61 239/135 239/145 239/302 239/327 239/337 239/34 239/340 239/345 239/34P 239/356 239/363 239/37 239/373 239/42 239/42S 239/43 239/44 239/533.13 239/57 239/58 239/590 239/590P 239/6 239/60 239/6P 261/104 261/107 261/142 261/142P 261/35 261/35S 261/DIG.065 261/DIG.088 261/DIG.089 261/DIG.65 261/DIG.65S 261/DIG.88 261/DIG.88S 261/DIG.89 261/DIG.89S 424/405 424/473 424/76.1 429/185 429/185S 429/8 429/86 429/86S 429/8P 604/3 604/30 604/30S 607/48 607/48P

Family:

Publication number	Publication date	Application number	Application date
AT443544 E	20091015	AT20050790118T	20050614
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AU200051374 A1	20010102	AU20000051374	20000517
AU200051374 A5	20010102	AU20000051374	20000517
AU2001286677 AA	20020304	AU20010286677	20010823
AU2002350225 AA	20030610	AU20020350225	20021120
AU2002350225 AH	20030610	AU20020350225	20021120
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MY146066 A	20120629	MY20050003003	20050630
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WO05005304 A2	20050120	WO2004US20949	20040630
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Priority:

US19960686730 19960726
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WO2003US03810 20030210
US20040709440 20040505
US20040584987P 20040701
WO2005US23523 20050701

Probable Assignee: MICROLIN LC

Assignee(s): (std): CERAMATEC INC ; CERAMATECH INC ; CHAPIN JOHN K ; HAWLEY EMERSON S ; EMERSON S HAWLEY ; JOHN K CHAPIN ; MICROLIN LLC ; RES FOUNDATION OF THE STATE UNIVERSITY OF NEW YORK ; JOSHI ASHOK V ; JOSHI ASHOK ; MICROLIN L C ; MCEVOY JOHN J ; MCEVOY JOHN ; RES FOUNDATION OF STATE UNIV OF NEW YORK ; TALWAR SANJIV K ; XU SHAOHUA ; SANJIV K TALWAR ; SHAOHUA XU ; WOLD TRUMAN ; UNIV NEW YORK STATE RES FOUND

Assignee(s): THE RESEARCH FOUNDATION OF THE STATE UNIVERSITY OF NEW YORK ; RYMER SHAUN PATRICK ; ROBINSON CLARE LOUISE ; WINKLE JOSEPH RAYMOD ; WOLD TRUMAN C ; SNYDER DANIEL EARL ; ZECEVIC STRAHINJA K ; WOLA TRUMAN ; RECKITT BENCKISER UK LTD ; MICROLIN LC ; NAVY SECRETARY OF UNITED STATES OF AMERICA ; NEW YORK UNIV ; NEW YORK UNIV OF RESESARCH FOUNDATION STATE OF ; RESEARCH FOUNDATION OF STATE UNIV OF NEW YORK ; RECKITT BENCKISER LTD ; RECKITT BENCKISER (UK) LTD ; MICROLIN L ; MCEVOY JOHN JOSEPH ; KASSEBAUM

JAMES WEB ; HARTVIGSEN JOSEPH J ; ELI LILLY AND CO

Inventor(s): (std): DOMENICK LAWRENCE ; ZECEVIC STRAHINJA K ; WINKLE JOSEPH RAYMOD ; WOLD TRUMAN C ; SNYDER DANIEL EARL ; HARTVIGSEN JOSEPH J ; KASSEBAUM JAMES WEB ; WINKLE JOSEPH RAYMOND ; ROBINSON CLARE LOUISE ; RYMER SHAUN PATRICK ; MCEVOY JOHN ; XU SHAOHUA ; CHAPIN JOHN K ; TALWAR SANJIV K ; HAWLEY EMERSON S ; WOLD II TRUMAN CHRISTIAN ; MCEVOY JOHN JOSEPH ; JOSHI ASHOK V ; CHUAH DAVID ; MUDERLAK TODD J ; BELLINGER SEAN ; MCEVOY JOHN J ; MUDERLAK KEN ; WOLD TRUMAN ; MUDERLAK KENNETH J ; WOLA TRUMAN ; JOSHI ASHOK

Inventor(s): ASHOK V JOSHI ; TRUMAN WOLD ; JOHN JOSEPH MCEVOY ; MUDERLAK TODD ; JAMES WEB KASSEBAUM ; JOSEPH RAYMOND WINKLE ; DANIEL EARL SNYDER ; JOHN J MCEVOY ; JOSEPH J HARTVIGSEN ; SEAN BELLINGER ; KEN MUDERLAK ; DAVID CHUAH ; TODD J MUDERLAK ; JOHN K CHAPIN ; EMERSON S HAWLEY ; SHAOHUA XU ; SANJIV K TALWAR

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; MCFADDEN FINCHAM; OSLER HOSKIN AND HARCOURT LLP; HARRISON GODDARD FOOTE; WOLFF BREGMAN AND GOLLER; SUGIMURA KOSAKU; FACTOR AND LAKE LTD; CERAMATEC INC; FACTOR AND LAKE; DAVID; SCULLY SCOTT MURPHY AND PRESSER PC

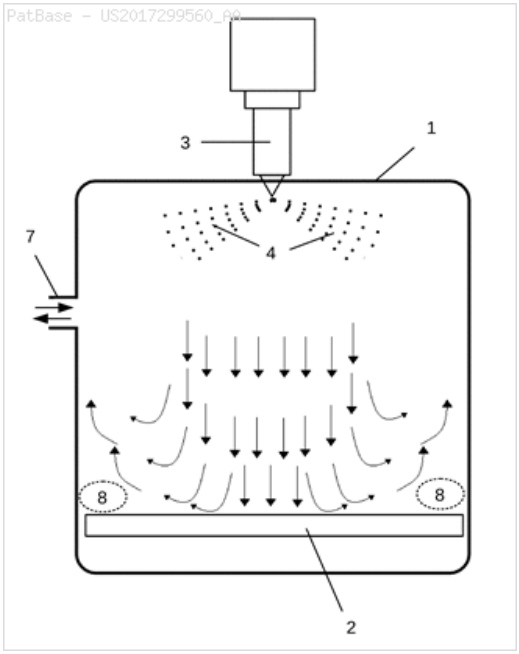
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238) Family number: 67232803 (US2017299560A)

Title: DERIVATIZATION APPARATUS AND METHOD

Abstract: A derivatization apparatus and method for coating a sample carrier with a reagent solution. The derivatization apparatus consists of a closed system in which a small quantity of reagent solution is sprayed into a closed container via a spray nozzle. A sample carrier is located in the closed container and is coated as homogeneously as possible with the reagent solution.

Classifications:
International (IPC 8-9): B05B B05B1/00 B05B1/14 B05B13/04 B05B15/12 B05B17/00 B05D1/00 B05D1/02 B05D1/30 B08B B08B9/093 C23C16/448 G01N30/74 G01N30/94 (Advanced/Invention); B05B15/12 B05B16/60 B05B17/06 B05B5/00 B05B7/00 B05D1/04 C23C16/448 C23C16/455 (Advanced/Non-invention)
CPC: G01N30/94 G01N2030/945 B05D1/02 B05D1/30 B05B13/04 B05B1/14 B08B9/093 B05B5/00 B05B7/0012 B05B17/0615 B05D1/04 B05D1/60 C23C16/4486 C23C16/45563 B05B13/0405 B05B16/60 B05B17/0638
US: 1/1 436/162



Family:

Publication number	Publication date	Application number	Application date
CH712376 A1	20171031	CH20160000518	20160419
CN107303548 A	20171031	CN201710255488	20170419
DE502017001244 D1	20190606	DE201750001244T	20170306
EP3235574 A1	20171025	EP20170159445	20170306
EP3235574 B1	20190508	EP20170159445	20170306
HK1243673 A1	20180720	HK20180103323	20180309
IN201714010460 A	20171222	IN201714010460	20170324
US2017299560 AA	20171019	US20170486656	20170413
US10338041 BB	20190702	US20170486656	20170413

Priority:
CH20160000518 20160419 EP20170159445 20170306

Probable Assignee: CAMAG

Assignee(s): (std): CAMAG ; CAMAG AG

Assignee(s): CAMAG CHEMIE ERZEUGNISSE U ADSORPTIONSTECHNIK AG

Inventor(s): (std): DIEGO MICHA HALDEMANN ; EIKE REICH ; MARK HOWELL STURGESS ; NICOLAS RICHERDT ; HALDEMANN DIEGO MICHA ; STURGESS MARK HOWELL ; RICHERDT NICOLAS ; REICH EIKE

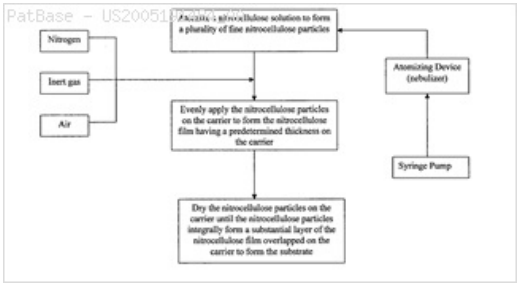
Agent(s): FLECK HERMANN JOSEF; CLT PATENT AND TRADEMARK HK LTD; ERSLER DONALD J

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

239) Family number: 32200809 (US2005191484A)

Title: PROCESS FOR FORMING NITROCELLULOSE FILMS

Abstract: A process of forming a nitrocellulose film on a carrier includes the steps of (i) atomizing a nitrocellulose solution to form a plurality of fine nitrocellulose particles and (ii) evenly spraying the nitrocellulose particles on the carrier to form the nitrocellulose film. The film has a predetermined thickness. The nitrocellulose solution is atomized by an ultrasonic spraying nozzle to control a size of each of the nitrocellulose particles to be sprayed on the carrier. The nebulizer can be air-assisted by inert air to control characteristics of the nitrocellulose spray pattern.



Classifications:
International (IPC 8-9): B05D1/02 B05D5/00 B32B1/00 B32B23/04 C03C17/34 C08B5/04 C09D5/00 (Advanced/Invention);
B05D1/02 B05D5/00 B32B1/00 B32B23/00 C03C17/34 C08B5/00 C09D5/00 (Core/Invention)
International (IPC 1-7): B05D5/00 B32B1/00 C03C17/34
CPC: Y10T428/263 Y10T428/2991 Y10T428/2998 C09D5/00 B05D1/02 C08B5/04 Y10T428/31971 Y10T428/31986 Y10T428/31993
European: B05D1/02 C08B5/04 C09D5/00
US: 427/212 427/421.1 427/600 428/334 428/403 428/407 428/532 428/536 428/537.5

Family:

Publication number	Publication date	Application number	Application date
TW200528412 A	20050901	TW20040104397	20040223
TWI254035 B	20060501	TW20040104397	20040223
US2005191484 AA	20050901	US20040969090	20041020
US7235307 BB	20070626	US20040969090	20041020

Priority:
TW20040104397 20040223

Probable Assignee: AST MANAGEMENT INC

Assignee(s): (std): AGNITIO SCIENCE AND TECHNOLOGY ; AGNITIO SCIENCE AND TECHNOLOGY C ; AGNITIO SCIENCE AND TECHNOLOGY CO ; AST MAN INC

Assignee(s): TECHNOLOGY CO LTD ; AST MANAGEMENT INC ; AGNITIO SCIENCE AND ; AGNITIO SCIENCE AND TECHNOLOGY CO LTD

Inventor(s): (std): CHANG PING ; CHEN CHI CHE ; CHEN CHI CHEN ; HONG RONG I ; TSAI YUAN RU ; TSENG KO YUAN ; WEBSTER JAMES R ; WEBSTER JAMES RUSSELL

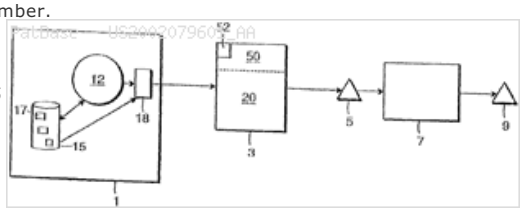
Inventor(s): WEBSTER JAMES ; CHEN CHI CHE AND

Agent(s): JONES DAY; BRETT

240) Family number: 30082812 (US2002079601A)

Title: METHOD AND APPARATUS FOR PROTOTYPING A THREE-DIMENSIONAL OBJECT

Abstract: A three-dimensional printer includes multiple printheads for printing binder and/or colorant onto a bed of build material in a build chamber. The printheads can be mounted on a gantry that is designed for reciprocal displacement across a build chamber along a slow axis. The printheads, in turn, can reciprocally move across the gantry on a fast axis to enable displacement of the printheads along both the fast and slow axes so that the printheads can deposit binder liquid and/or colorant across the surface of a bed of build material in the build chamber.



Classifications:
International (IPC 8-9): B05D1/36 B05D3/12 B08B5/00 B29C B29C31/04 B29C41/12 B29C41/36 B29C64/20 B29C67/00 B33Y B41J B41J2/01 B41J2/155 B41J2/165 B41J2/175 B41J2/21 B41J2/505 B41M1/40 F16J10/02 (Advanced/Invention);
B33Y40/00 (Advanced/Non-invention);
B29C67/00 (Core/Invention);
B29C B41J (Subclass/Invention)
International (IPC 1-7): B29C31/04 B29C41/02 B29C41/12 B29C67/00 B41J2/01 B41J2/165 B41M1/40 B41M3/00 F16J10/02 F16J10/02 F16J10/02 F16J10/02
CPC: B22F3/008 B29C41/36 B41J2/155 B41J2/17513 B41J2/17556 B41J2/17596 B41J2002/14475 B41J2202/20 B33Y10/00 B41J2/16523 B41J2/16535 B29C41/12 B29K2995/0021 B41J2/01 B41J2/16541 B33Y30/00 B33Y40/00 B29C64/165 B29C64/35 B29C64/386 B41J2/16552 H04N1/58
European: B29C41/12 B29C41/36 B29C67/00R6 B29C67/00R8B B29C67/00R8F B41J2/01 B41J2/155 B41J2/165C3 B41J2/175C2 B41J2/175C9 B41J2/175P L29K995/00E2B L41J2/14W L41J2/165C1D L41J2/165C2 L41J2/165C2C L41J202/20
US: 134/104.2 134/198 134/21 134/37 264/109 264/109P 264/113 264/113S 264/128 264/28 264/308 264/308S 264/39 264/40.1 264/40.100P 425/13 425/130 425/130S 425/21 425/210 425/210S 425/215 425/215P 425/215S 425/218 425/375 425/375S 427/203 427/203P 427/356 427/356P 700/119 700/119S

Family:

Publication number	Publication date	Application number	Application date
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AT431774 E	20090615	AT19970077318T	19971219
AT533610 E	20111215	AT20020789141T	20020508
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WO03016067 C2	20040527	WO2002US14591	20020508
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WO03026876 A3	20030807	WO2002US31102	20020927
WO9828124 A2	19980702	WO1997US23922	19971219
WO9828124 A3	19981022	WO1997US23922	19971219

Priority:

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US20080192412 20080815 US20100710594 20100223

Probable Assignee: 3D SYSTEMS INC

Assignee(s): (std): 3D SYSTEMS INC ; CORP SOMERVILLE Z ; CORP Z ; Z CORP

Assignee(s): Z SOMERVILLE CORP ; Z CORP BURLINGTON ; VOGEL MICHAEL J ; RUSSELL DAVID B ; SEYMOUR MARTIN ; KISAI DARUL ; ZENGERLE WALTER H III ; ROCHE KEVIN ; PHILLIPS ROBERT A ; SWEET BLOCK BENJAMIN DANIEL ; PHILLIPS ROBERT ANTHONY ; ZENGERLE WALTER HENRY III ; DAVIDSON THOMAS ; HATSOPOULOS MARINA I ; HERNANDES ANDRES T ; KINSLEY JOSHUA ; 3D SYSTEMS INC ROCK HILL ; ANDERSON TIMOTHY ; BERLIN ANDREW ; BORNHORST WALTER J ; BREDT JAMES F ; CONWAY PETER CHARLES

Inventor(s): (std): DAVIDSON THOMAS ; PHILLIPS ROBERT A ; HERNANDES ANDRES T ; ROCHE KEVIN ; ZENGERLE III WALTER H ; BERLIN ANDREW ; KINSLEY JOSHUA P ; SWEET BLOCK BENJAMIN DANIEL ; KISAI DARUL ;

	RUSSELL DAVID B ; ANDERSON TIMOTHY ; BREDT JAMES F ; VOGEL MICHAEL J ; SEYMOUR MARTIN ; BORNHORST WALTER J ; HATSOPOULOS MARINA I ; RUSSEL DAVID B ; HATSOPOULOS MARINA ; ZENGERLE WALTER HENRY ; CONWAY PETER CHARLES ; PHILLIPS ROBERT ANTHONY ; ZENGERLE WALTER HENRY III ; ZENGERLE WALTER H ; KINSLEY JOSHUA ; ZENGERLE WALTER H III ; RUSELL DAVID B ; SWEET BLOCK BENJAMIN D ; RUSSELL B ; BORNHORST J ; HATSOPOULOS I ; BREDT F ; VOGEL J ; HERNANDEZ ANDRES T ; PHILIPS ROBERT A ; ZENGERLE WALTER ; CONWAY PETER ; PHILLIPS ROBERT ; BREDT JAMES ; RUSSELL DAVID ; ZENGERLE III WALTER ; SWEET BLOCK BENJAMIN ; HERNANDES ANDRES ; ZENGERLE III WALTER HENRY
Inventor(s):	III WALTER H ; ZENGERLE WALTER HIII ; SWEET BLOCK BENJAMIN DANIEL CAMBRIDGE ; DAVIDSON THOMAS ARLINGTON ; ROCHE KEVIN LOWELL ; ZENGERLE III WALTER H DEDHAM ; RUSSELL DAVID B BURLINGTON ; BERLIN ANDREW BRIGHTON ; PHILLIPS ROBERT A ACTON ; HERNANDES ANDRES T SAN ANTONIO ; KINSLEY JOSHUA P ARLINGTON ; ZENGERLE WALTER HENRY III DEDHAM ; RUSSELL DAVID B SOUTHBORO ; PHILLIPS ROBERT ANTHONY ACTON ; BREDT JAMES F WATERTOWN ; CONWAY PETER CHARLES PEPPERELL ; ZENGERLE ; III WALTER HENRY
Agent(s):	SWABEY OGILVY RENAULT; OGILVY RENAULT LLP SENCRL SRL; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; BARDEHLE PAGENBERG PARTNERSCHAFT MBB PATENTANWAELTE RECHTSANWAELTE; GREENWOOD JOHN DAVID; HESS PETER K G; GREENWOOD JOHN DAVID ET AL; CLT PATENT AND TRADEMARK HK LTD; VIVIEN CHAN AND CO; INSIGHT INTELLECTUAL PROPERTY LTD; GOODWIN PROCTER LLP PATENT ADMINISTRATOR; GOODWIN PROCTER LLP; GOODWIN PROCTOR LLP
Designated states:	AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

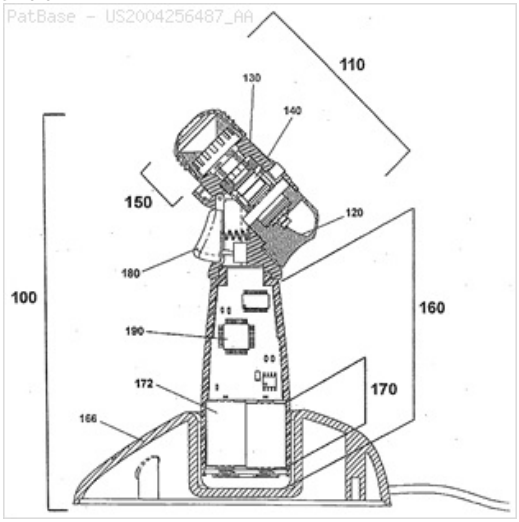
241) Family number: 31380820 (US2004256487A)

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Title: OPHTHALMIC DRUG DELIVERY SYSTEM

Abstract: A fluid atomizer is disclosed. The fluid atomizer comprises a body having a proximal end and a distal end. A removable reservoir containing a fluid disposed therein is connected to the body. A discharge plate is disposed at the distal end, wherein the discharge plate includes a plurality of openings extending therethrough. An ultrasonic oscillator is disposed in the body for transmitting the fluid from the reservoir to the discharge plate and through the plurality of openings, wherein transmission of the fluid through the plurality of openings atomizes the fluid.

Classifications:
International (IPC 8-9): A61F9/00 A61M11/00 A61M11/04 A61M11/06 A61M35/00 A61M5/00 A62C A62C13/62 B05B1/08 B05B1/32 B05B17/00 B05B17/04 B05B17/06 (Advanced/Invention); A61F9/00 (Advanced/Non-invention); A61F9/00 A61M11/00 A61M5/00 A62C13/00 B05B1/02 B05B1/30 B05B17/04 (Core/Invention); A62C (Subclass/Invention)
International (IPC 1-7): A61M5/00 A62C13/62
CPC: A61M11/044 A61M2202/04 A61M2205/18 A61M2205/3386 A61M2205/3653 A61M2205/581 A61M2205/583 A61M2205/8212 A61B17/20 A61M2205/3372 A61M2205/368 A61M2205/50 A61M2205/8206 B05B17/063 B05B17/0646 A61F9/0008 A61M11/005 A61M11/041 A61M11/042 A61M2205/59 A61M2210/0612 B05B17/0623 B05B17/0676 A61M11/065
European: A61M11/00F A61M11/04H B05B17/06B B05B17/06B2 B05B17/06B2B B05B17/06B5F B05B17/06B7F K61B17/20 K61F9/00B K61M11/04H2 K61M11/04H2E K61M202/04 K61M205/18 K61M205/33T2 K61M205/33V2 K61M205/36J K61M205/36R K61M205/50 K61M205/58B K61M205/58D K61M205/59 K61M205/82B K61M205/82B2 K61M210/06B L05B17/06B2Y10 L05B17/06B99B30
US: 128/200.14 128/200.16 220/23.89 239/1 239/102.1 239/102.100P 239/102.2 239/102.200S 239/338 239/338P 239/360 239/375 604/294 604/296 604/296P 604/298 604/300 604/500 604/500P



Family:

Publication number	Publication date	Application number	Application date
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Priority:

US20030471883P 20030520 US20030485305P 20030703 US20040851611 20040520
WO2004US16181 20040520 US20070698438 20070126 US20070698647 20070126
US20080287150 20081006 US20080287147 20081006 US20080203908P 20081230
US20090650008 20091230

Probable Assignee: OPTIMYST SYSTEMS INC

Assignee(s): (std): CHINNOCK RANDAL B ; COLLINS ; COLLINS JAMES F ; HOWARD JOSEPH ; JOBIN MICHAEL JOSEPH ; COLLINS JAMES F JR ; COLLINS JR JAMES F ; JOBIN MICHAEL J ; MELANSON JEFFREY ; OPTIMYST SYSTEMS INC ; TEE ALEXANDER KIRBY

Assignee(s): COLLINS JR

Inventor(s): (std): CHINNOCK RANDAL ; HOWARD JOSEPH ; MELANSON JEFFREY ; CHINNOCK RANDAL B ; COLLINS JAMES F ; COLLINS JR JAMES F ; TEE ALEXANDER KIRBY ; JOBIN MICHAEL JOSEPH ; TEE ALEXANDER K ; JOBIN MICHAEL J ; COLLINS JAMES F JR

Inventor(s): COLLINS JAMES FJR ; COLLINS JAMES ; JOBIN MICHAEL ; TEE ALEXANDER

Agent(s): MCFADDEN FINCHAM; OSLER HOSKIN AND HARCOURT LLP; PATENTANWALTSKANZLEI MATSCHNIG AND FORSTHUBER OG; CHINAHK INTELLECTUAL PROPERTY SERVICES CO LTD; RATNERPRESTIA; BRINKS HOFER GILSON AND LIONE; BRINKS GILSON AND LIONE; COHEN JOSHUA L; FREEMAN JOHN C

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 YU ZA ZM ZW

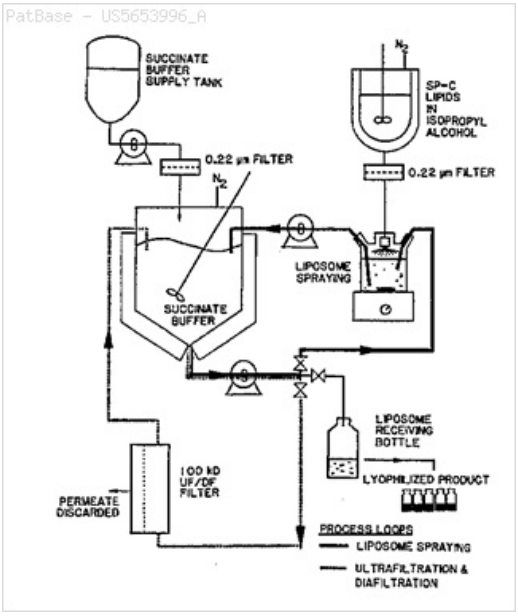
242) Family number: 8487822 (US5653996A)

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Title: Method for preparing liposomes

Abstract: Methods are provided for the preparation of liposomes utilizing aerosolization of a solution comprising bilayer-forming materials and optional additional molecules onto an aqueous surface, the aerosolization being mist spraying through a frequency-generated vibrating nozzle.

Classifications:
International (IPC 8-9): A61K9/127 B01J13/04 (Advanced/Invention); B01J13/04 (Advanced/Non-invention); A61K9/127 B01J13/04 (Core/Invention)
International (IPC 1-7): A61K9/127 B01J13/04 B05B17/04 B05B17/06
CPC: A61K9/1277
European: A61K9/127P
US: 264/4.1 264/4.3 264/41 264/43 424/450



Family:

Publication number	Publication date	Application number	Application date
AU199472151 A1	19950124	AU19940072151	19940629
AU689786 B2	19980409	AU19940072151	19940629
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EP0706374 A1	19960417	EP19950904347	19940629
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Priority:

US19930084933 19930630 WO1994US07327 19940629 US19950407424 19950317

Probable Assignee: GENENTECH INC

Assignee(s): (std): GENENTECH INC

Assignee(s): GENENTECH INC SOUTH SAN FRANCISCO CALIF US ; HSU CHUNG C

Inventor(s): (std): HSU CHUNG C ; HSU CHUNG

Inventor(s): CHUNG C HSU ; HSU CHUNG C LOS ALTOS HILLS CA 94022 US

Agent(s): GRIFFITH HACK; DENNISON ASSOCIATES

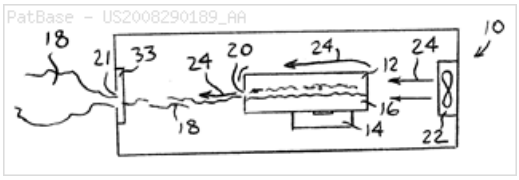
Designated states: AT AU BE CA CH DE DK ES FR GB GR IE IT JP LI LU MC NL PT SE

243) Family number: 42586822 (US2008290189A)

Title: ULTRASONIC FOG GENERATOR

Abstract: An ultrasonic fog generator including a container including therein an ultrasonic nebulizer and a liquid, the ultrasonic nebulizer operative to vibrate at very high frequencies and thereby break down the liquid into a fog including tiny vapor particles, the container having an exit opening for the fog to pass therethrough, and a driver and a driving fluid, the driver being operative to cause the driving fluid to flow past the exit opening and draw out the fog through the exit opening without the driving fluid substantially entering the container.

Classifications:
International (IPC 8-9): B05B1/08 B05B7/30 (Advanced/Invention); B05B1/02 B05B7/24 (Core/Invention)
CPC: A01M1/205 A01M1/2055 A61L9/14 B05B17/0615
European: A01M1/20C2L2 A01M1/20C2S A61L9/14 L05B17/06B1
US: 239/102.1 239/102.2 239/338 239/340



Family:

Publication number	Publication date	Application number	Application date
US2008290189 AA	20081127	US20070751036	20070521
US7810742 BB	20101012	US20070751036	20070521

Priority:

US20070751036 20070521

Probable Assignee: LEVI ZVI

Assignee(s): (std): LEVI ZVI

Inventor(s): (std): LEVI ZVI

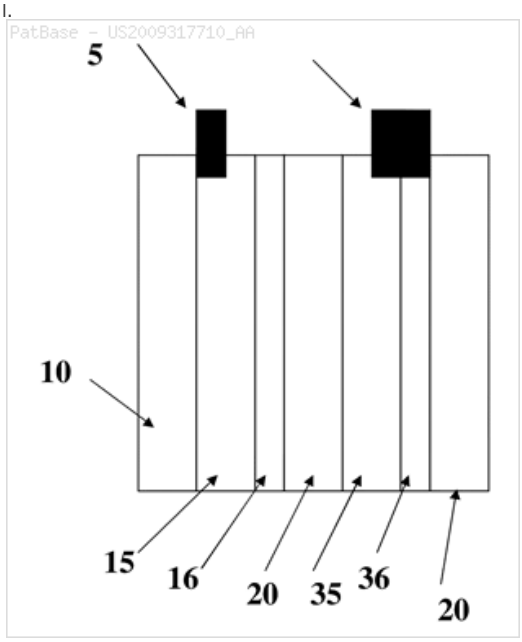
Agent(s): DAVID KLEIN DEKEL PATENT LTD; DAVID; DEKEL PATENT LTD

244) Family number: 44128827 (US2009317710A)

Title: ANODE, CATHODE, GRID AND CURRENT COLLECTOR MATERIAL FOR REDUCED WEIGHT BATTERY AND PROCESS FOR PRODUCTION THEREOF

Abstract: A process for producing lightweight materials for a battery comprises lightweight polymer substrate coated with dispersions of nano particles, conductive matrixes and active material.

Classifications:
International (IPC 8-9): B05D5/12 C23C28/00 H01M2/02 H01M4/02 H01M4/04 H01M4/64 H01M4/66 (Advanced/Invention); B82Y30/00 (Advanced/Non-invention); H01M2/02 H01M4/02 H01M4/04 H01M4/64 (Core/Invention)
CPC: H01M2/0277 H01M2/0275 H01M4/0404 H01M4/663 H01M4/667 H01M4/668
European: H01M2/02E12 H01M2/02E14 H01M4/04B2 H01M4/66C H01M4/66K2 H01M4/66R T01M2/02E12 Y02E60/12
US: 205/183 205/183S 205/184 205/184S 427/77 427/77S 427/78 427/78S 429/163 429/163P 429/211 429/211P 429/221 429/221S 429/225 429/225S 429/228 429/228S 429/231.8 429/231.800S 977/742 977/742S 977/773 977/773S



Family:

Publication number	Publication date	Application number	Application date
US2009317710 AA	20091224	US20090485099	20090616
US2012045691 AA	20120223	US20110284769	20111028
WO09155267 A1	20091223	WO2009US47461	20090616

Priority:

US20040576195P 20040602 WO2005US19311 20050531 US20060851946P 20061016
US20060856967P 20061106 US20070579750 20070810 US20070897077 20070829
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Probable Assignee: MYSTICMD INC

Assignee(s): (std): BARBARICH THOMAS ; DOUGLAS JOEL S ; MYSTIC TECHNOLOGY PARTNERS ; MYSTICMD INC

Assignee(s): JOEL S DOUGLAS

Inventor(s): (std): BARBARICH THOMAS ; DOUGLAS JOEL S

Agent(s): MICHAUD-DUFFY GROUP LLP; MICHAUD DUFFY GROUP LLP; GROHS WAYNE R

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI 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

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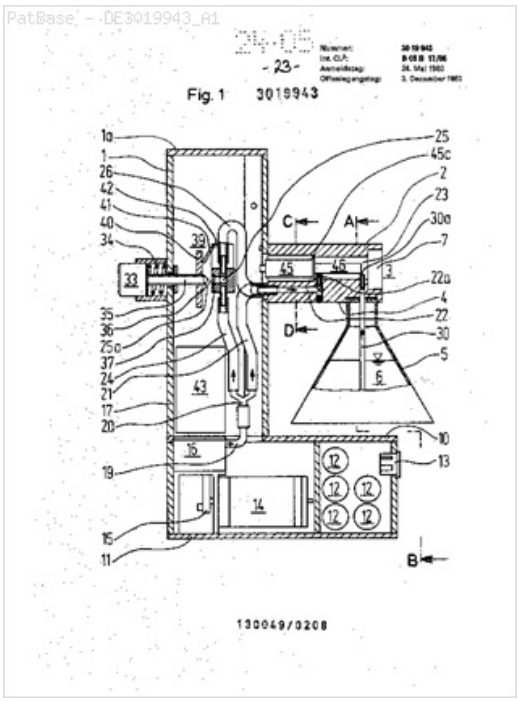
245) Family number: 1940834 (DE3019943A1)

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Title: ULTRASONIC ATOMISATION SPRAY FOR E.G. HAIR LACQUER - HAS AIR STREAM AND LIQ. DIRECTED ONTO FRONT OF RESONATOR AT DIFFERENT ANGLES

Abstract: The ultrasonic spray has an atomisation chamber containing the resonator (45) with the spray liquid directed at an angle (B) of at least 45 degrees to the longitudinal axis is of the resonator (45) onto its front face (47) pointing in the spray direction. The atomisation air is supplied via a displacement pump to a jet (22a) which determines the spray characteristics, its main spray direction forming an angel of at least 15 degrees with the longitudinal axis of the resonator (45). The spray liquid is directed onto the front face (47) of the resonator (45) at an angle (B) lying between 80 and 90 degrees to the resonator longitudinal axis. The liquid is supplied via a piston controlled valve (55) and a fall pipe (56) extending parallel to the front face (47) of the resonator (45). The spray appts. is applicable to cosmetic fluids e.g. hair spray and is inexpensive to produce.

Classifications:
International (IPC 8-9): B05B17/06 (Advanced/Invention); B05B17/04 (Core/Invention)
International (IPC 1-7): B05B17/06
CPC: B05B17/0623
European: B05B17/06B2



Family:

Publication number	Publication date	Application number	Application date
DE3019943 A1	19811203	DE19803019943	19800524
DE3019943 C2	19890119	DE19803019943	19800524

Priority:

DE19803019943 19800524

Probable Assignee:	WELLA AG
Assignee(s): (std):	WELLA AG
Assignee(s):	WELLA AG 6100 DARMSTADT DE
Inventor(s): (std):	UNLAND GEORG
Inventor(s):	UNLAND GEORG 6104 SEEHEIM DE

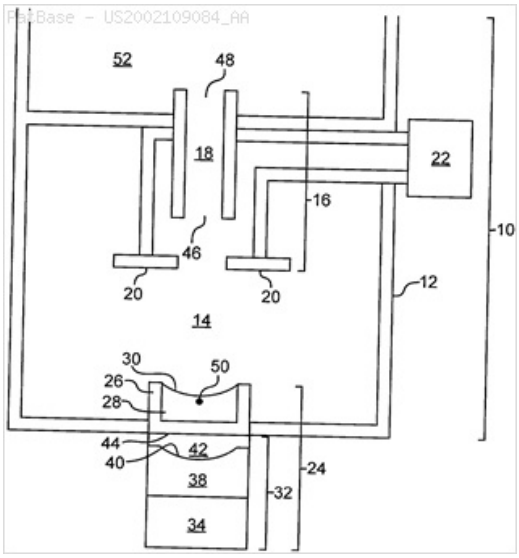
246) Family number: 30065836 (US2002109084A)

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Title: ACOUSTIC SAMPLE INTRODUCTION FOR MASS SPECTROMETRIC ANALYSIS

Abstract: The invention relates to the efficient transport of a small fluid sample such as that may be required by analytical devices such as mass spectrometers configured to analyze small samples of biomolecular fluids. Such transport involves nozzleless acoustic ejection, wherein analyte molecules are introduced from a reservoir holding a fluid into an ionization chamber of an analytical device or a small capillary by directing focused acoustic radiation at a focal point near the surface of the fluid sample. This facilitates the analysis of various types of analytes such as biomolecular analytes having a high molecular weight.

Classifications:
International (IPC 8-9): C12Q1/24 G01N1/10 G01N1/30 G01N30/00 G01N33/543 G01N35/00 G01N35/10 H01J49/04 (Advanced/Invention); G01N30/00 G01N33/543 H01J49/02 (Core/Invention)
International (IPC 1-7): B01L3/00 B05B1/08 B05B3/04 C12Q1/24 G01N1/00 G01N1/10 G01N1/30 G01N30/00 G01N35/00 G01N35/10 H01J49/00 H01J49/04
CPC: H01J49/0004 H01J49/0418 G01N35/1011 Y10T436/2575 H01J49/0454 G01N33/54393
European: G01N33/543M G01N35/10C1 H01J49/04E3 H01J49/04L7
US: 239/102.2 239/102.200P 250/288 250/288P 42/26.3 422/100 422/504 422/507 422/510 422/63 435/30 436/180 7/386.4 7/386.481 73/864 73/864.81



Family:

Publication number	Publication date	Application number	Application date
AT475087 E	20100815	AT20020706331T	20020214
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DE60237072 D1	20100902	DE20026037072	20020214
EP1366356 A2	20031203	EP20020706331	20020214
EP1366356 B1	20100721	EP20020706331	20020214
US2002109084 AA	20020815	US20010784705	20010214
US2002125424 AA	20020912	US20020066546	20020130
US2002171037 AA	20021121	US20020087372	20020301
US2002195558 AA	20021226	US20020157755	20020528
US2004026615 AA	20040212	US20030379379	20030303
US2005121537 AA	20050609	US20050041999	20050124
US6603118 BB	20030805	US20010784705	20010214
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US6710335 BB	20040323	US20020066546	20020130
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US6855925 BB	20050215	US20030379379	20030303
US7405395 BB	20080729	US20050041999	20050124
WO02071051 A2	20020912	WO2002US04912	20020214
WO02071051 A3	20030109	WO2002US04912	20020214
WO03075307 A1	20030912	WO2003US06427	20030303
WO03075307 B1	20031127	WO2003US06427	20030303

Priority:

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US20050041999 20050124
WO2002US04912 20020214
US20030379379 20030303

Probable Assignee: LABCYTE INC

Assignee(s): (std): CAPRIOLI RICHARD M ; ELLSON RICHARD N ; PICOLITER INC ; MUTZ MITCHELL W

Assignee(s): LABCYTE INC ; CAPRIOLI RICHARD MICHAEL

Inventor(s): (std): CAPRIOLI RICHARD MICHAEL ; MUTZ MITCHELL W ; ELLSON RICHARD N ; ELLSON RICHARD ; MUTZ MITCHELL ; CAPRIOLI RICHARD M

Inventor(s): CAPRIOLI RICHARD ; RICHARD M CAPRIOLI ; MITCHELL W MUTZ ; RICHARD N ELLSON

Agent(s): FB RICE PTY LTD; FB RICE; BATTISON WILLIAMS DUPUIS; CRUMP JULIAN RICHARD JOHN; REED INTELLECTUAL PROPERTY LAW GROUP; DIANNE E; MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO PC

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

247) Family number: 1044838 (US3918640A)

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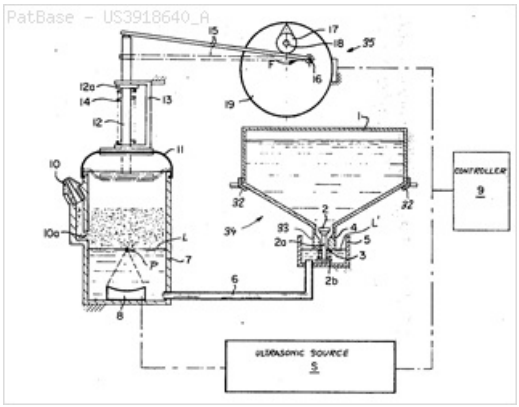
Title: Mist generator

Abstract: A mist generator comprises a generally closed vessel formed with an elastically deflectable wall and with an aperture in its side. An inverted-bottle filler is provided to maintain a liquid level in the vessel below the wall and below the aperture and a piezoelectric transducer having a concave upper surface focused on the liquid level is provided in the vessel below the liquid level so as to vaporize this liquid and form a cloud of mist in the vessel. A motor is provided to periodically deflect the vessel wall and expell the cloud of mist from the vessel. This motor can have a lever actuated by a cam arrangement or can be a simple solenoid.

Classifications:

International (IPC 8-9): B05B17/06 B05B7/24 (Advanced/Invention);

B05B17/04 B05B7/24 (Core/Invention)
International (IPC 1-7): A61L9/04 B05B15/00 B05B17/06 B05B5/00 B05B7/00 B05B9/00 F24F3/14
CPC: B05B17/0615
European: B05B17/06B1
US: 128/200.16 239/102.2 239/323 239/338 239/4



Family:

Publication number	Publication date	Application number	Application date
AT329227 B	19760426	AT19740005028	19740618
AT502874 A	19750715	AT19740005028	19740618
CH566822 A	19750930	CH19730008948	19730620
DE2429471 A1	19750116	DE19742429471	19740619
FR2234046 A1	19750117	FR19740021302	19740619
FR2234046 B3	19770415	FR19740021302	19740619
GB1460181 A	19761231	GB19740027047	19740618
IT1016084 A	19770530	IT19740051604	19740619
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Priority:
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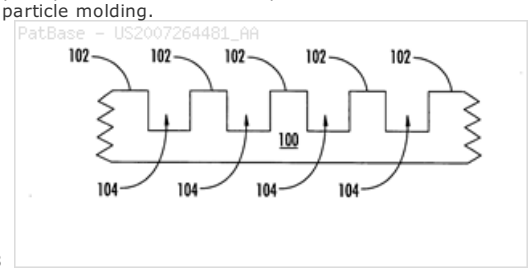
Probable Assignee: STERN FRERES SA
Assignee(s): (std): STERN FRERES SA
Assignee(s): STERN FRERES SA CH ; STERN FRERES S A ; STERN FRERES S A GENF SCHWEIZ
Inventor(s): (std): RINGROSE ANTHONY STEPHEN ; PICCINO PIERRE MICHEL ; RINGROSE ANTHONY STEPHAN
Inventor(s): RINGROSE ANTHONY STEPHAN CHENE BOUGERIE ; PICCINO PIERRE MICHEL GENF

248) Family number: 32355844 (US2007264481A)

Title: ISOLATED AND FIXED MICRO AND NANO STRUCTURES AND METHODS THEREOF

Abstract: Discrete micro and nanoscale particles are formed in predetermined shapes and sizes and predetermined size dispersions. The particles can also be attached to a film to form arrays of particles on a film. The particles are formed from molding techniques that can include high throughput and continuous particle molding.

Classifications:



International (IPC 8-9): A61B5/055 A61B8/00 A61F2/00 A61J3/00 A61J3/06 A61K31/337 A61K31/704 A61K31/7088 A61K31/7105 A61K31/711 A61K31/713 A61K35/18 A61K35/76 A61K35/761 A61K38/00 A61K38/17 A61K38/22 A61K38/42 A61K38/43 A61K39/00 A61K39/395 A61K45/00 A61K47/24 A61K47/26 A61K47/32 A61K47/34 A61K47/38 A61K47/42 A61K47/44 A61K47/48 A61K48/00 A61K49/00 A61K49/04 A61K49/18 A61K49/22 A61K51/00 A61K51/12 A61K9/00 A61K9/14 A61K9/16 A61K9/19 A61K9/50 A61K9/51 A61K9/70 A61L27/18 A61N1/05 A61P1/04 A61P11/00 A61P13/02 A61P15/04 A61P15/10 A61P19/00 A61P19/02 A61P23/00 A61P25/00 A61P25/02 A61P25/06 A61P25/08 A61P25/18 A61P27/02 A61P29/00 A61P3/04 A61P3/10 A61P31/00 A61P31/04 A61P31/10 A61P31/12 A61P35/00 A61P37/06 A61P5/00 A61P7/00 A61P9/00 B01D61/14 B01D71/38 B01J19/00 B01J2/00 B01J2/02 B02C17/00 B05D3/00 B05D5/00 B28B11/08 B29B11/06 B29B9/00 B29B9/10 B29C35/04 B29C37/00 B29C39/36 B29C41/02 B29C43/02 B29C59/00 B29C59/02 B32B1/00 B32B27/00 B32B27/32 B32B3/10 B32B3/12 B32B5/00 B32B5/16 B81C99/00 B82B1/00 B82B3/00 B82Y10/00 B82Y20/00 B82Y30/00 B82Y40/00 C07K1/00 C08G73/24 C08J5/00 C08J7/12 C08L101/00 C08L27/00 C09K11/06 C12N15/63 C12N15/87 C12N5/06 C12N5/071 G03F G03F7/00 G06F15/16 H01F1/00 H01L H01L21/02 H01L21/027 H01L21/04 H01L21/302 H01L31/00 H01L31/0256 H01L31/0352 H01L31/04 H01L31/042 H01L31/072 H01L31/18 H01L31/20 H01L51/00 H01L51/05 H01L51/40 H01L51/42 H01L51/46 H04M1/00 (Advanced/Invention);
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B82B G03F H01L (Subclass/Invention)
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Family:

Publication number	Publication date	Application number	Application date
AU2004318602 AA	20051027	AU20040318602	20041220
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AU2006282042 AA	20070301	AU20060282042	20060619
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CA2847260 AA	20051027	CA20042847260	20041220
CA2847260 C	20160621	CA20042847260	20041220
CN100517584 C	20090722	CN200480041942	20041220
CN101147239 A	20080319	CN200480041942	20041220
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CN101573802 B	20120808	CN200780026068	20070509
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EP2022100 A2	20090211	EP20070835750	20070509
EP3242318 A1	20171108	EP20170156921	20041220
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HK1095921 A3	20070518	HK20070103263	20070327
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IL176254 A0	20061005	IL20040176254	20041220
IL176254 A1	20160421	IL20040176254	20041220
IL245063 A0	20160630	IL20040245063	20041220
IL245063 A1	20180531	IL20040245063	20041220
IN03991DN2006 A	20070824	IN2006DN03991	20060711
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JP2007526820 T2	20070920	JP20060545541T	20041220
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JP2014168777 A2	20140918	JP20140054051	20140317
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JP5570721 B2	20140813	JP20080517202T	20060619
JP5956116 B2	20160720	JP20110104856	20110510
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KR20090025229 A	20090310	KR20087030036	20081209
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US20072644 81 AA	20071115	US20060594023	20061107
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WO05101466 A2	20051027	WO2004US42706	20041220
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WO07024323 A2	20070301	WO2006US23722	20060619
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WO07030698 A2	20070315	WO2006US34997	20060907
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WO07094829 A2	20070823	WO2006US43305	20061107
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WO08011051 A1	20080124	WO2007US16248	20070717
WO08013952 A2	20080131	WO2007US16935	20070727
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WO08018936 A2	20080214	WO2007US11220	20070509
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WO08063204 A2	20080529	WO2007US02476	20070129
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Priority:

US20030531531 20031219	US20030531531P 20031219	US20040583170P 20040625
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Probable Assignee: LIQUIDIA TECHNOLOGIES INC

Assignee(s): (std): BARRETT STEPHANIE ; DENISON GINGER M ; DENISON ROTHROCK GINGER ; DENNIS ANSLEY E ; DENNIS ANSLEY EXNER ; DENNIS ANSLEYE ; DESIMONE JOSEPH M ; EXNER ANSLEY E ; EULISS LARKEN E ; ERMOSH ALEX ; GRATTON STEPHANIE ; LIQUIDA TECHNOLOGIES INC ; EARL MEREDITH ; LIQUIDIA TECHNOLOGIES INC ; GUO JI ; KELLY JENNIFER YVONNE ; ERMOSHKIN ALEXANDER ; ROLLAND JASON P ; SAMULSKI EDWARD T ; SAMULSKI R JUDE ; MAYNOR BENJAMIN W ; FLUID TECHNOLOGY CO LTD ; EULISS LARKIN E ; ROTHROCK GINGER D ; NAPIER MARY E ; NORTH CAROLINA STATE UNIV ; UNIV NORTH CAROLINA ; ROTHROCK GINGER DENISON ; MURPHY ANDREW JAMES ; ZHOU ZHILIAN ; UNIV NORTH CAROLINA STATE ; UNIV OF NORTH CAROLINA AT CHAPEL HILL ; UNIV NORTH CAROLINA CHAPEL HILL

Assignee(s): UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL ; THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL ; THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL UNIV NORTH CAROLINA ; NAVY SECRETARY OF UNITED STATES OF AMERICA OFFICE OF NAVAL RESEARCH ; ROTHROCK DENISON GINGER ; NIH DEITR ; NATIONAL INSTITUTES OF HEALTH NIH US DEPT OF HEALTH AND HUMAN SERVICES DHHS US GOVERNMENT ; NAVY SECRETARY OF UNITED STATES OF AMERICA OFFICE ; NAVY SECRETARY OF UNITED STATES OF AMERICA ; NORTH CAROLINA AT CHAPEL HILL UNIV OF ; UNIV ; NATIONAL SCIENCE FOUNDATION ; ERMOSHKIN ALEX ; NORTH CAROLINA AT CHAPEL HILL UNIV ; OF NORTH CAROLINA AT CHAPEL HILL UNIV ; SAMULSKI R ; NORTH CAROLINA STATE UNIVERSITY ; FLUID TECHNOLOGY CO

Inventor(s): (std): SAMULSKI R ; DESIMONE JOSEPH M ; ROLLAND JASON P ; EXNER ANSLEY E ; SAMULSKI EDWARD T ; SAMULSKI R JUDE ; MAYNOR BENJAMIN W ; EULISS LARKEN E ; DENISON GINGER M ; ROTHROCK

GINGER DENISON ; ERMOSH ALEX ; MURPHY ANDREW JAMES ; GRATTON STEPHANIE ; LARKEN E EULISS ; ANSLEY E EXNER ; EDWARD T SAMULSKI ; JASON P ROLLAND ; BENJAMIN W MAYNOR ; R JUDE SAMULSKI ; GINGER M DENISON ; JOSEPH M DESIMONE ; DENISON ROTHROCK GINGER ; ROTHROCK GINGER D ; NAPIER MARY E ; GUO JI ; KELLY JENNIFER YVONNE ; EARL MEREDITH ; ZHOU ZHILIAN ; DENNIS ANSLEY E ; DENNIS ANSLEYE ; ROTHROCK GINGER DENISSON ; WILLIAMS STUART ; MEREDITH EARL ; ZHILIAN ZHOU ; HAMPTON MEREDITH ; DENNIS ANSLEY EXNER ; ERMOSHKIN ALEXANDER ; BARRETT STEPHANIE ; JUDE SAMULSKI R ; ALEX ERMOSH ; STEPHANIE GRATTON ; JAMES MURPHY ANDREW ; DESIMONE JOSEPH ; SAMULSKI EDWARD ; MAYNOR BENJAMIN ; EXNER ANSLEY ; DENISON GINGER ; ROLLAND JASON ; EULISS LARKEN ; CUMBERLAND LARKEN E ; ROTHROCK DENISON GINGER ; EULISS LARKIN E ; JOSEPPH M DE SIMONE ; RALKEN E JULIUS ; ANSLEY E EXCENEL ; BENJAMIN W MYNOR ; R GYUDE SAMULSKI ; GINGHER M DENISON ; JASON P L ORLANDO

Inventor(s): ERMOSHKIN ALEX ; GINGER DENISSON ROTHROCK ; SAMULSKI RJUDE ; ANDREW JAMES MURPHY ; GINGER DENISON ROTHROCK ; GRATTON STEPHANIE 1

Agent(s): GRIFFITH HACK; OGILVY RENAULT LLP SENCRL SRL; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; JOHNSON YVONNE CATHERINE; BEHNISCH WERNER; DUCKWORTH TIMOTHY JOHN ET AL; JACKSON MARTIN PETER; CARVAJAL Y ISABEL; MARKS AND CLERK; NTD PATENT AND TRADE MARK AGENCY LTD; WOLFF BREGMAN AND GOLLER; JENKINS WILSON TAYLOR AND HUNT P A; MORGAN LEWIS AND BOCKIUS LLP; ALSTON AND BIRD LLP; W MURRAY SPRUILL ALSTON AND BIRD LLP; BARTOW DANA M ET AL; TAYLOR ARLES A; SPRUILL W MURRAY ET AL

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

249) Family number: 46399846 (IL174109A1)

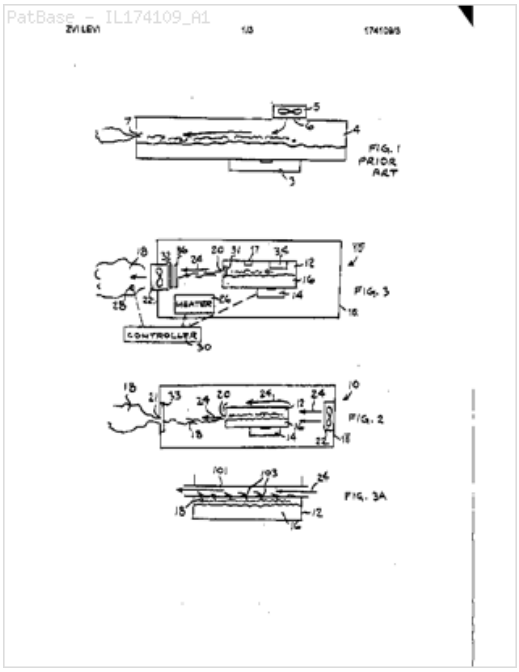
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Title: ULTRASONIC FOG GENERATOR

Abstract: 1. An ultrasonic fog generator comprising: a container inside an enclosure, the container comprising therein an ultrasonic nebulizer and a liquid, said ultrasonic nebulizer operative to vibrate at very high frequencies and thereby break down the liquid into a fog comprising tiny vapor particles, said container having an exit opening for said fog to pass therethrough; and a driver inside said enclosure and outside said container, and a driving fluid, said driver being operative to cause said driving fluid to flow past the exit opening and draw out said fog through the exit opening without said driving fluid substantially entering said container, wherein said driver uses positive pressure to drive the driving fluid past the exit opening and drive the fog out of the container.

Classifications:

International (IPC 8-9): B05B (Subclass/Invention)



Family:

Publication number	Publication date	Application number	Application date
IL174109 A0	20060801	IL20060174109	20060305
IL174109 A1	20101230	IL20060174109	20060305

Priority:

IL20060174109 20060305

Probable Assignee: ZVI LEVI

Assignee(s): (std)**:** ZVI LEVI

Agent(s): DEKEL PATENT LTD

250) Family number: 16743850 (DE8427367U1)

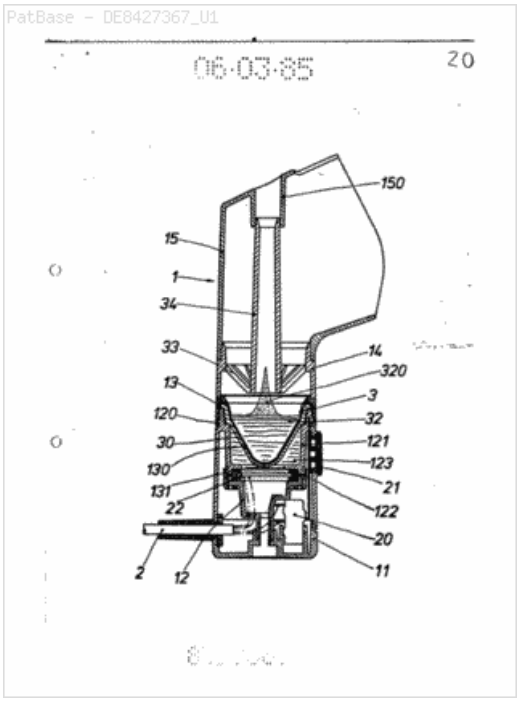
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Abstract: Source: DE8427367U1 [DE] (Claim 1) Fluessigkeitszerstaeuber Schutzansprueche 1. Fluessigkeitszerstaeuber mit einem Behaelter fuer die zu zerstaeubende Fluessigkeit und mit einem auf die zu zerstaeubende Fluessigkeit einwirkenden Ultraschallerreger, dadurch gekennzeichnet, dass der Behaelter (130) aus einer Ultraschallwellen uebertragenden Membrane (130) besteht und dass zwischen dieser und dem Ultraschallwellenerreger (22) ein mit ihm verbundenes und mit einer

Koppelfluessigkeit (123) gefuelltes Gefaess (121) angeordnet ist, in dessen Fluessigkeit (123) die Membrane (130) ganz oder zum Teil eintaucht.

Machine translation: (Claim 1) liquid atomization Schutzansprueche first Liquid atomization with a container for the liquid to be atomized and with the liquid to be atomized acting ultrasonic excitation, wherein the container (130) from an ultrasonic wave transmitting diaphragm (130) exists and that with between this and the ultrasonic wave excitation (22) one it is associated with a Koppelfluessigkeit (123) vessel filled (121) arranged in the liquid (123), the diaphragm (130) immersed in whole or in part.

Classifications:
International (IPC 8-9): B05B17/06 (Advanced/Invention); B05B17/04 (Core/Invention)
International (IPC 1-7): A61M11/00 B05B17/06
CPC: B05B17/0615
European: B05B17/06B1



Family:

Publication number	Publication date	Application number	Application date
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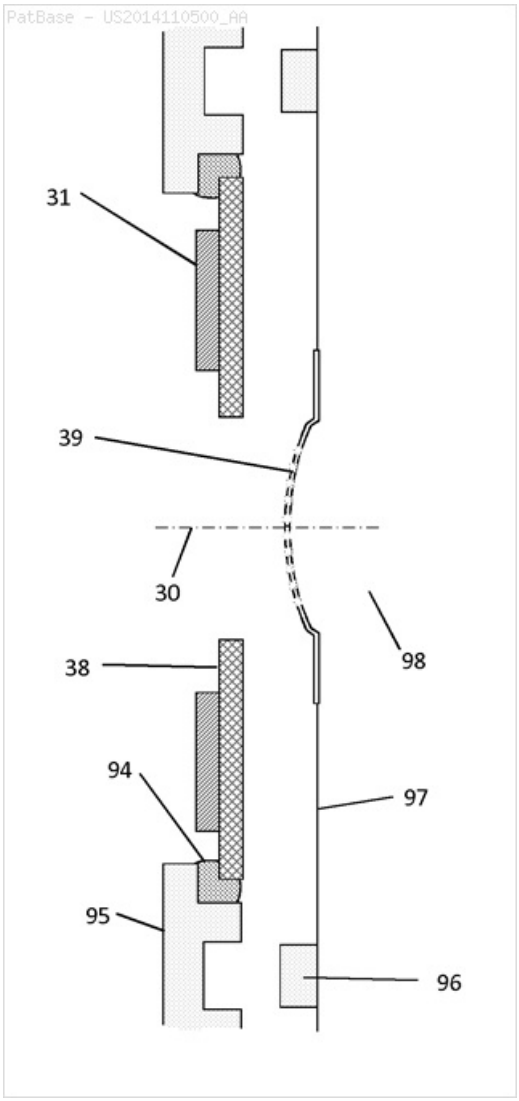
Priority:
DE19840027367U 19840917

Probable Assignee: BUSSE DESIGN ULM GMBH 7915 ELCHINGEN DE
Assignee(s): BUSSE DESIGN ULM GMBH 7915 ELCHINGEN DE

251) Family number: 49333855 (US2014110500A)

Title: SEPARABLE MEMBRANE IMPROVEMENTS

Abstract: A liquid droplet production apparatus comprising a perforate membrane (33,39), a means for supplying liquid to one side of the membrane, an actuator (31) for vibrating the membrane said vibration causing liquid droplets to be ejected from the other side of the membrane, in which magnetic force is used to connect the actuator to the membrane so that the vibration can be transmitted.
Classifications:
International (IPC 8-9): A61J1/14 A61J3/07 A61M11/00 A61M11/06 A61M15/00 A61M15/08 B05B17/00 B05B17/06 B65D25/08 (Advanced/Invention)
CPC: B05B17/0646 B05B17/06 A61J1/14 A61J3/07 A61M11/005 A61M11/06 A61M15/0028 A61M15/0035 A61M15/0041 A61M15/0053 A61M15/0063 A61M15/0085 A61M2202/04 B05B17/0638 B65D25/08
European: B05B17/06B5F L05B17/06B5
US: 206/438 239/102.1 239/102.2



Family:

Publication number	Publication date	Application number	Application date
CN103747825 A	20140423	CN201280029525	20120516
CN103747825 B	20160217	CN201280029525	20120516
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CN105641787 A	20160608	CN201610031274	20120516
CN105641787 B	20190628	CN201610031274	20120516
DE602012019743 D1	20160804	DE201260019743T	20120516
EP2709700 A1	20140326	EP20120722812	20120516
EP2709700 B1	20160622	EP20120722812	20120516
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GB201204429 A0	20120425	GB20120004429	20120314
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JP2017164535 A2	20170921	JP20170102443	20170524
JP6460547 B2	20190130	JP20170102443	20170524
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US2014110500 AA	20140424	US20120118010	20120516
US2014217197 AA	20140807	US20120117800	20120516
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Priority:

GB20110008102 20110516 GB20120004429 20120314 CN201280029525 20120516
EP20120722812 20120516 JP20140510876T 20120516 WO2012GB51082 20120516
WO2012GB51081 20120516 JP20170102443 20170524

Probable Assignee: TECHNOLOGY PARTNERSHIP PLC

Assignee(s): (std): BRADSHAW DOUGLAS ROBERT SAUNDERS ; CRICHTON DANIEL ; POLLOCK NEIL ; POOLEY DAVID MARTIN ; SELBY ROBERT GORDON MAURICE ; TECH PARTNERSHIP PLC ; TECHNOLOGY PARTNERSHIP PLC ; TECHNOLOGY PARTNERSHIP ; TECHNOL PARTNERSHIP PLC

Assignee(s): THE TECHNOLOGY PARTNERSHIP PLC ; TECHNOLOGY PARTNERSHIP THE PLC ; TECHNOLOGY PARTNERSHIP PLC MELBOURN ROYSTON ; TECHNOL PARTNERSHIP PLC THE ; TECHNOLOGY PARTNERSHIP PLC THE

Inventor(s): (std): DOUGLAS ROBERT SAUNDERS BRADSHAW ; DANIEL CRICHTON ; NEIL POLLOCK ; ROBERT GORDON

MAURICE SELBY ; BRADSHAW DOUGLAS ROBERT SAUNDERS ; POLLOCK NEIL ; CRICHTON DANIEL ; POOLEY DAVID MARTIN ; SELBY ROBERT GORDON MAURICE

Agent(s): SMEE ANTHONY JAMES MICHAEL; GILL JENNINGS AND EVERY LLP; KAWAGUCHI YOSHIYUKI; TAROLLI SUNDHEIM COVELL AND TUMMINO LLP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI 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

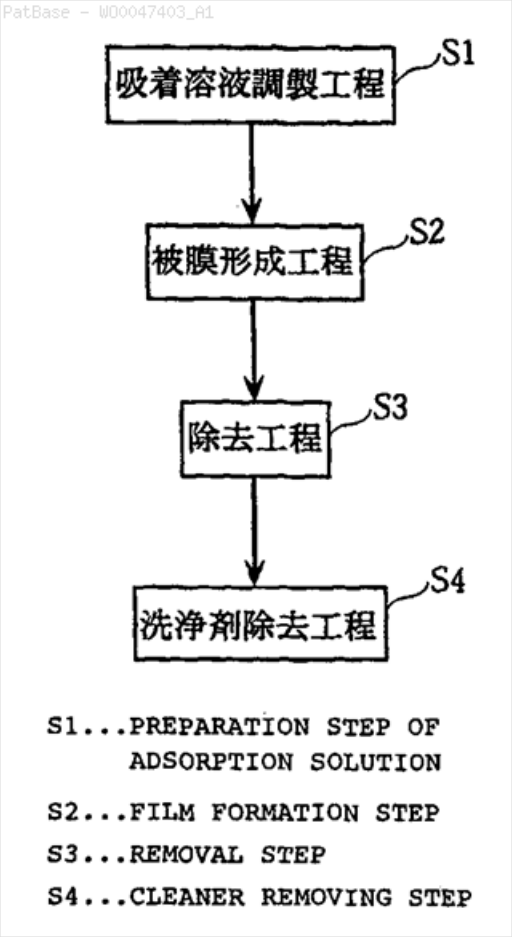
252) Family number: 29989859 (WO0047403A1)

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Title: ORGANIC THIN FILMS, PROCESS FOR THE PRODUCTION THEREOF AND EQUIPMENT THEREFOR; ALIGNMENT LAYERS FOR LIQUID CRYSTALS, PROCESS FOR THE PRODUCTION THEREOF AND EQUIPMENT THEREFOR; AND LIQUID CRYSTAL DISPLAYS MADE BY USING THE ALIGNMENT LAYERS AND PROCESS FOR THE PRODUCTION THEREOF

Abstract: A process for the production of organic thin films, characterized by comprising the film formation step of forming a film out of molecules having functional groups reactive with functional groups having active hydrogen by bringing such molecules into contact with a substrate to thereby make the molecules adsorbed on the substrate and the removal step of removing an unadsorbed part of the molecules with a cleaner containing at least one member selected from the group consisting of ketones, alkylene glycols and alkoxy alcohols. This process permits the formation of organic thin films having uniform film thickness without chlorinated organic solvents to thereby reduce the load on the environment, thus being industrially significant.

Classifications:
International (IPC 8-9): B01J19/00 B05C9/12 B05D1/18 B32B9/00 C03C17/28 C03C17/30 C09D183/00 C09D183/04 C09D185/00 C09D201/02 C09D201/10 C09D9/00 G02F1/1337 (Advanced/Invention); B05C9/12 B32B9/00 C09D9/00 (Advanced/Non-invention); B01J19/00 B05C9/08 B32B9/00 C09D183/00 C09D183/04 C09D185/00 C09D201/02 C09D9/00 G02F1/13 (Core/Invention); B05C9/08 C09D9/00 (Core/Non-invention)
International (IPC 1-7): B01J19/00 B05C9/00 B05C9/12 B05D1/00 B05D1/18 B05D3/10 B05D5/12 B05D7/24 B32B31/00 B32B9/00 C03C17/30 C08J7/06 C09D183/00 C09D183/04 C09D185/00 C09D201/02 C09D201/10 C09D9/00 G02F1/1337 G02F11/337
CPC: B82Y30/00 B05D1/185 B82Y40/00 C03C17/28 C03C17/30 G02F1/133719
European: B05D1/18C B82Y30/00 B82Y40/00 C03C17/28 C03C17/30 G02F1/1337C2 S02F1/1337C2



Family:

Publication number	Publication date	Application number	Application date
CN1293614 A	20010502	CN20008000106	20000210
EP1084822 A1	20010321	EP20000902932	20000210
EP1132147 A2	20010912	EP20010200513	20000210
EP1132147 A3	20031210	EP20010200513	20000210
JP2000297248 A2	20001024	JP20000032858	20000210
JP2000319594 A2	20001121	JP20000036291	20000215
JP3597100 B2	20041202	JP20000032858	20000210
KR20010042451 A	20010525	KR20007011053	20000210
WO0047403 A1	20000817	WO2000JP00776	20000210

Priority:

JP19990033459 19990210 JP19990060808 19990308 EP20000902932 20000210
WO2000JP00776 20000210 JP20000032858 20000210 JP20000036291 20000215

Probable Assignee: MATSUSHITA ELECTRIC IND CO LTD

Assignee(s): (std): MATSUSHITA ELECTRIC IND CO LTD ; NOMURA TAKAIKI ; OGAWA KAZUFUMI ; OTAKE TADASHI ; TEKEBE TAKAKO

Assignee(s): PANASONIC CORP ; OOTAKE TADASHI ; MATSUSHITA ELECTRIC INDUSTRIAL CO ; MATSUSHITA ELECTRIC INDUSTRIAL CO LTD

Inventor(s): (std): NOMURA YUKIO ; TAKEBE NAOKO ; OTAKE TADASHI ; KAMIMURA TSUYOSHI ; TEKEBE TAKAKO ;

NOMURA TAKAIKI ; OGAWA KAZUFUMI ; OOTAKE TADASHI ; TAKAIKI NOMURA ; KAZUFUMI OGARA ; TAKASHI OOTAKE

Inventor(s): OGARA KAZUFUMI ; OOTAKE TAKASHI

Agent(s): KIM BONG HEE

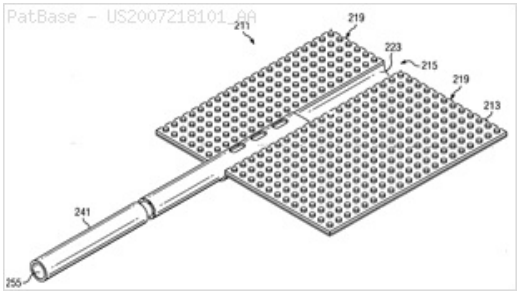
Designated states: CN DE FR GB KR US

253) Family number: 36077864 (US2007218101A)

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Title: SYSTEM AND METHOD FOR PERCUTANEOUSLY ADMINISTERING REDUCED PRESSURE TREATMENT USING A FLOWABLE MANIFOLD

Abstract: A reduced pressure delivery system for applying a reduced pressure to a tissue site includes a manifold delivery tube having a passageway and a distal end, the distal end configured to be percutaneously inserted and placed adjacent the tissue site. A flowable material is provided and is percutaneously deliverable through the manifold delivery tube to the tissue site. The flowable material is capable of filling a void adjacent the tissue site to create a manifold having a plurality of flow channels in fluid communication with the tissue site. A reduced pressure delivery tube is provided that is capable of fluid communication with the flow channels of the manifold.



Classifications:

International (IPC 8-9): A61M1/00 A01J A46B3/06 A46B9/02 A46D1/10 A46D3/05 A61B17/00 A61B17/08 A61B17/135 A61B17/34 A61B17/56 A61B17/80 A61B17/88 A61F A61F13/00 A61F13/02 A61F13/40 A61F13/84 A61F2/00 A61F2/02 A61F2/28 A61F2/30 A61F2/32 A61F2/36 A61F2/958 A61F5/00 A61F5/50 A61H7/00 A61H9/00 A61H99/00 A61K A61K31/655 A61K35/12 A61K38/18 A61K38/22 A61K47/02 A61K47/12 A61K47/26 A61K47/32 A61K47/34 A61K47/36 A61K47/42 A61K9/06 A61K9/08 A61K9/14 A61K9/70 A61L15/16 A61L15/20 A61L15/22 A61L15/28 A61L15/32 A61L15/36 A61L15/42 A61L15/44 A61L15/46 A61L15/54 A61L15/60 A61L15/64 A61L26/00 A61L31/14 A61M A61M1/06 A61M25/00 A61M25/098 A61M25/10 A61M27/00 A61M29/00 A61M29/02 A61M3/02 A61M31/00 A61M35/00 A61M37/00 A61M39/00 A61M39/16 A61M5/00 A61M5/14 A61M5/142 A61M5/50 A61P17/02 A61P41/00 B05C1/06 B23K20/10 B23K28/00 B23K31/02 B23P17/04 (Advanced/Invention);
A61B17/12 A61B17/135 A61B17/80 A61F13/00 A61F13/02 A61F2/30 A61F2/36 A61M1/00 A61M25/00 A61M25/10 A61M27/00 A61M3/00 A61M31/00 F15B21/00 (Advanced/Non-invention);
A46B3/00 A46B9/00 A46D1/00 A46D3/00 A61B17/00 A61B17/03 A61B17/34 A61B17/56 A61F13/00 A61F13/02 A61F13/15 A61H99/00 A61K35/12 A61K38/18 A61K47/02 A61K47/12 A61K47/32 A61K47/36 A61K47/42 A61L15/16 A61M1/00 A61M27/00 A61M29/00 A61M31/00 A61M37/00 B05C1/04 B23K20/10 B23K28/00 B23K31/02 B23P17/00 (Core/Invention);
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A61F A61K A61M (Subclass/Invention)

International (IPC 1-7): A61F13/00 A61F13/02 A61F5/00 A61K9/14 A61L15/22 A61L15/32 A61L15/36 A61L15/44 A61L15/46 A61M1/00 A61M27/00 A61M29/00 A61M31/00

CPC: A61M2025/1093 A61M2205/04 A46B3/06 A46D3/00 B23K20/10 Y10T29/49826 A61M25/0009 A61M25/003 A61M25/0032 A61M25/0068 A61M25/0069 A61M25/007 A61M25/0071 A61M25/0074 A61M25/0082 A61M2025/0003 A61M2025/0034 A61M2025/0036 A61M2025/0076 A61M1/0058 A61M3/0283 A61M3/0295 A61M2207/00 A61F13/00017 A61F13/00063 A61F2013/00157 A61F2013/00174 A61F2013/00221 A61F2013/00255 A61F2013/00519 A61F2013/0054 A61F2013/0074 A61F2013/00863 A61F2013/00927 A61L15/20 A61L15/425 A61L15/54 A61L15/60 A61L15/64 A61L26/0066 A61L26/008 A61L26/0085 A61L26/009 A61L2300/406 A61L2300/414 A61L2300/64 A61M35/006 A61B17/1355 A61B17/80 A61B17/88 A61F2/30767 A61F2/36 A61F2/3662 A61F2002/30677 A61F2002/30785 A61F2002/30787 A61F2002/30968 A61F2002/3611 A61F2002/3625 A61F2002/368 A61F2002/3694 A61F2310/00395 A61F2310/00592 A61F2310/00928 A61M27/00 A61M37/00 A61B17/12168 A61B17/12181 A61B17/12186 A61B17/1219 A61B17/12195 A61F2/0077 A61F13/0216 A61F2002/0086 A61F2002/3068 A61H9/005 A61H2201/0103 A61L31/146 A61M1/0023 A61M1/0084 A61M5/14 A61M2025/1086 A61F13/00068 A61M1/0031 A61M1/0037 A61M1/0088 A61M1/0092 A61M2205/3344 A61M2205/584 A61M1/0025 A61M1/0035 A61M1/0086

European: A46B3/06 A46D3/00 A61B17/88 A61F13/00A2D A61F13/00B6 A61F13/00B8 A61F2/36D A61L15/20 A61L15/42E A61L15/54 A61L15/60 A61L15/64 A61L26/00H2 A61L26/00H7 A61L26/00H8 A61L26/00H9 A61M1/00H A61M1/00T6 A61M25/00R1M6 A61M25/00R1M8 A61M25/00T10 A61M25/00T10A A61M25/00T20 A61M25/00T40 A61M27/00 A61M35/00B2 A61M37/00 B23K20/10 K61B17/135B K61B17/80 K61F13/00J11A K61F13/00J13B K61F13/00J6 K61F13/00J8A K61F13/00L10B K61F13/00L12E K61F13/00L1R K61F13/00L1V K61F13/00L5A5 K61F2/30A5D K61F2/30L K61F2/30L2A9P K61F2/30L2A9Q K61F2/30M6 K61F2/36 K61F2/36C1 K61F2/36C2 K61F2/36D8A K61F2/36D8L K61F310/00L2 K61F310/00L6 K61F310/00L8 K61L300/406 K61L300/414 K61L300/640 K61M1/00T6V K61M25/00A2 K61M25/00G K61M25/00R1M10 K61M25/00R1M14 K61M25/00T10A K61M25/00T10C K61M25/00T10E K61M25/00T20A1 K61M25/10 K61M25/10Z22 K61M27/00

US: 1/1 128/897 128/897S 15/160 156/244.11 219/136 219/137R 264/241 29/428 29/428S 300/21 424/423 424/423P 424/93.7 424/93.700S 514/1.1 514/1.100S 514/12 514/771 514/771S 514/772.6 514/772.600S 514/773 514/773S 514/777 514/777S 514/784 514/784S 601/10 601/148 601/6 601/6P 604/103.1 604/103.100P 604/103.11 604/131 604/131P 604/148 604/171 604/171S 604/23 604/244 604/264 604/266 604/27 604/28 604/284 604/289 604/290 604/304 604/304P 604/305 604/308 604/313 604/313P 604/313S 604/319 604/319P 604/319S 604/326 604/35 604/43 604/44 604/48 604/506 604/540 604/543 604/543P 604/57 604/73 604/93.01 604/96.01 604/96.010P 604/96.010S 604/97.02 604/97.020S 606/221 606/221P 623/23.72

Family:

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EP3348290 A1	20180718	EP20180158692	20070206
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IN02037MN2008 A	20090227	IN2008MN02037	20080924
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KR20110112382 A	20111012	KR20117017760	20091223
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RU2011127674 A	20130210	RU20110127674	20091224
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Probable Assignee: KCI LICENSING INC

Assignee(s): (std): AMBROSIC ARCHEL A ; AMBROSIO ARCHEL ; AMBROSIO ARCHEL A ; HEATON KEITH PATRICK ; CORNET DOUGLAS A ; COMET DOUGLAS A ; KCI LICENSING INC ; JAEB JONATHAN PAUL ; JOHNSON ROYCE W ; KAGAN JONATHAN ; KCI LICENSIG INC ; KCI ILICENSING ; ROBINSON TIMOTHY MARK ; LOCKE CHRISTOPHER BRIAN ; PAYNE JOANNA ; SWAIN LARRY D ; MANWARING MICHAEL ; SANTORA CARL JOSEPH ; LONG JUSTIN ALEXANDER ; KEJSIAJ LAJSENZING INK ; MANWARING MICHAEL E ; SWAIN LARRY ; NEWELL OPERATING CO ; WANG ZHAOHUI

Assignee(s): NEWELL OPERATING COMPANY ; KCI LICENSING INC US ; WILMINGTON TRUST NATIONAL ASSOCIATION COLLATERAL A ; WILMINGTON TRUST NATIONAL ASSOCIATION COLLATERAL AGENT AS ; LIFECELL CORP ; TECHNIMOTION LLC ; SYSTAGENIX WOUND MANAGEMENT US INC A DELAWARE GRANTOR AS CORP ; TECHNIMOTION LLC A DELAWARE LIABILITY CO GRANTOR AS LTD ; KINETIC CONCEPTS INC ; KCI USA INC ; KCL LICENSING INC ; KCI LICENSING INC SAN ANTONIO ; KCI LICENSING INC GRANTOR AS ; KCI HOLDING CO INC ; KCI INT ; KCI INT INC ; CITIBANK NA ; CITIBANK NA ADMINISTRATIVE AGENT AS ; BANK OF AMERICA NA COLLATERAL AGENT AS

Inventor(s): (std): HEATON KEITH P ; ROBINSON TIMOTHY M ; LOCKE CHRISTOPHER B ; KAGAN JONATHAN ; MANWARING MICHAEL ; CORNET DOUGLAS A ; JAEB JONATHAN PAUL ; LOCKE CHRISTOPHER BRIAN ; HEATON KEITH PATRICK ; ROBINSON TIMOTHY MARK ; ARCHAEL AMBROSIO ; PATRICK KEITH HEATON ; SWAIN LARRY ; PEHJN DZHOANNA ; LARRY SWAIN ; JOSEPH SANTORA CARL ; ALEXANDER LONG JUSTIN ; ARCHEL AMBROSIO ; CARL JOSEPH SANTORA ; JUSTIN ALEXANDER LONG ; AMBROSIC ARCHEL A ; ROBINSON TIMOTY MARK ; AMBROISO ARCHEL A ; MANWARING MICHAEL E ; LONG JUSTIN ALEXANDER ; COMET DOUGLAS A ; SANTORA CARL JOSEPH ; PAUL JAEB JONATHAN ; MARK ROBINSON TIMOTHY ; KEATON KEITH PATRICK ; JOHNSON ROYCE ; LOCKE BRIAN ; HEATON KEITH ; AMBROSIO ARCHEL ; JOHNSON ROYCE W ; AMBROSIO ARCHEL A ; SWAIN LARRY D ; PAYNE JOANNA ; KEHJGAN DZHONATAN ; MEHNUEHRING MAJKL ; JOANNA PAYNE ; ZHAOHUI WANG ; WANG ZHAOHUI ; PATRICK HEATON KEITH ; BRIAN LOCKE CHRISTOPHER ; JONATHAN KAGAN ; MICHAEL MANWARING ; KORNET DUGLAS A ; KEHGAN DZHONATAN ; DZHAEHB DZHONATAN POL ; DZHONSON ROJS U ;

Inventor(s): SUEHJN LARRI D ; KHITON KEJT PATRIK ; MEHNUORING MAJKL ; LOK KRISTOFER BRAJAN ; ROBINSON TIMOTI MARK ; CORNET DOUGLAS ; CHRISTOPHER BRIAN LOCKE ; TIMOTHY MARK ROBINSON KEITH PATRICK HEATON ; LARRY D SWAIN ; ROYCE W JOHNSON ; DOUGLAS A CORNET ; JAEB JONATHAN PAUL BOERNE ; HEATON KEITH PATRICK POOLE DORSET ; ROBINSON TIMOTHY MARK BASINGSTOKE HAMPSHIRE ; LOCKE CHRISTOPHER BRIAN BOUMEMOUTH DORSET ; MANWARING MICHAEL AND ; JONATHAN PAUL JAEB ; ARCHEL A AMBROSIO ; BRIAN LOCKE ; KEITH HEATON ; ROYCE JOHNSON ; KEITH PATRICK KEATON ; ARCHEL A AMBROISO ; ROBINSON TIMOTHY MARK BASINGSTOKE ; LOCKE CHRISTOPHER BRIAN BOUMEMOUTH ; AMBROSIO ARCHEL A SAN ANTONIO ; PAYNE JOANNA SAN ANTONIO ; JOHNSON ROYCE W UNIVERSAL CITY ; MANWARING MICHAEL SAN ANTONIO ; SWAIN LARRY D SAN ANTONIO ; CORNET DOUGLAS A SAN ANTONIO ; KAGAN JONATHAN HOPKINS ; ROBINSON TIMOTHY ; LOCKE CHRISTOPHER

Agent(s): SHELSTON IP PTY LTD; SHELSTON IP; BORDEN LADNER GERVAIS LLP; OLSWANG GERMANY LLP; MILLER JAMES LIONEL WOOLVERTON ET AL; CORDINA KEVIN JOHN; MAGGS MICHAEL NORMAN ET AL; ASHTON TIMOTHY; FOX NICHOLAS RUSSELL PHILIP; SIMMONS AND SIMMONS; IT AND T INT PATENT AND TRADEMARK AGENT LTD; IT AND T INTELLECTUAL PROPERTY; KITA AOYAMA INT PATENT BUREAU; ONE LEGAL LLC; UGUR GUERSAD YALCINER; KINETIC CONCEPTS INC ATTN LEGAL DEPARTMENT INTELLECTUAL PROPERTY; TAFT STETTINIUS AND HOLLISTER LLP; KINETIC CONCEPTS INC C O SONNENSCHEIN NATH AND ROSENTHAL LLP; SNR DENTON US LLP; WELCH GERALD T ET AL

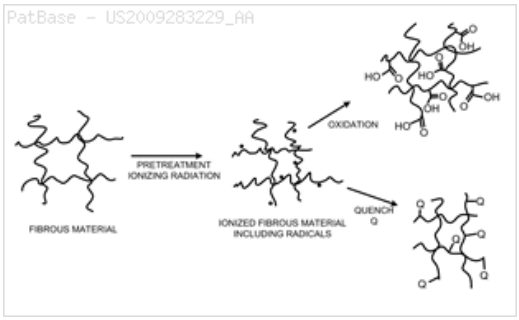
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254) Family number: 43952875 (US2009283229A)

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Title: FUNCTIONALIZING CELLULOSIC AND LIGNOCELLULOSIC MATERIALS

Abstract: Irradiated lignocellulosic or cellulosic materials are provided which contain carboxylic acid groups and/or other functional groups not present in a naturally occurring cellulosic or lignocellulosic material from which the irradiated material was obtained



Classifications:

International (IPC 8-9): A23G3/32 A41D1/00 A63B59/06 A63B59/50 A63B59/52 B01J19/08 B01J19/12 B02C23/18 B03C9/00 B05D3/00 B05D3/06 B05D7/06 B27K5/00 B27N1/00 B29C65/00 B29C65/14 B29C71/04 B32B21/14 C07C1/20 C07C27/00 C07C27/04 C07C27/24 C07C29/00 C07C31/00 C07C6/00 C07H3/00 C07H3/04 C08B1/00 C08B15/00 C08B15/02 C08B15/04 C08B15/10 C08B3/06 C08B30/02 C08H7/00 C08H8/00 C08J11/10 C08J3/24 C08J3/28 C08L97/02 C10L1/00 C10L1/02 C10L3/00 C12M1/00 C12N13/00 C12P C12P1/00 C12P13/00 C12P19/00 C12P19/02 C12P19/14 C12P21/00 C12P3/00 C12P5/00 C12P5/02 C12P7/00 C12P7/02 C12P7/04 C12P7/06 C12P7/10 C12P7/16 C12P7/40 C12P7/58 C13B50/00 C13B99/00 C13K1/00 C13K1/02 C13K1/06 C13K5/00 D02G3/00 D02G3/02 D03D15/00 D04B1/14 D04B21/00 D04H D04H1/12 D04H1/26 D04H1/42 D04H1/425 D04H3/00 D04H5/00 D06B3/10 D06M D06M10/00 D06M10/02 D06M10/06 D06M10/08 D06M10/10 D06M14/22 D21B1/02 D21B1/06 D21B1/10 D21C1/00 D21C1/10 D21C5/00 D21C9/00 D21F11/00 D21F5/00 D21F7/00 D21G1/00 D21H11/00 D21H11/04 D21H11/12 D21H11/14 D21H11/16 D21H11/20 D21H21/28 D21H23/22 D21H25/00 D21H25/04 G01N23/00 G01N23/02 G03C1/00 G03C5/00 G21K5/00 G21K5/10 H01J37/30 H01J37/317 (Advanced/Invention);
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C12P D03D D04B D04H D06M (Subclass/Invention)

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Family:

Publication number	Publication date	Application number	Application date
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Priority:

US20080049391P 20080430	US20080049395P 20080430	US20080049394P 20080430
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AU20190204430 20190624

Probable Assignee: XYLECO INC

Assignee(s): (std): KSILEKO INK ; MEDOFF MARSHALL ; XYLECO INC

Assignee(s): XYLECO INC WAKEFIELD ; XYLECO INCL-271 SALEM STREETWOBURNMA01801US ; MEDOFF MARSHALL90 ADDINGTON ROADBROOKLINEMA02146US

Inventor(s): (std): MEDOFF MARSHALL ; MADOFF MARSHALL ; MARSHALL MEDOFF

Inventor(s): MEDOFF MARSHALL BROOKLINE ; MEDOFF MARSHALL90 ADDINGTON ROADBROOKLINEMA02146US

Agent(s): SPRUSON AND FERGUSON; SMART AND BIGGAR; SMART AND BIGGAR LLP; STOLMAR AND PARTNER PATENTANWAELTE PARTG MBB; SIMPSON MARK GEOFFREY; VON FUENER NICOLAI; PONS ANGEL; REINHOLD COHN AND PARTNERS; EVROMARKPAT; FULYA SUEMERALP; FISH AND RICHARDSON PC; XYLECO INC; XYLECO INC CELIA LEBER; CELIA H; CELIA; LEBER PATENT LAW PC; LEBER PATENT LAW P; FRANCESCO; LEBER IP LAW; LEBER CELIA H; LEBER CELIA H ET AL

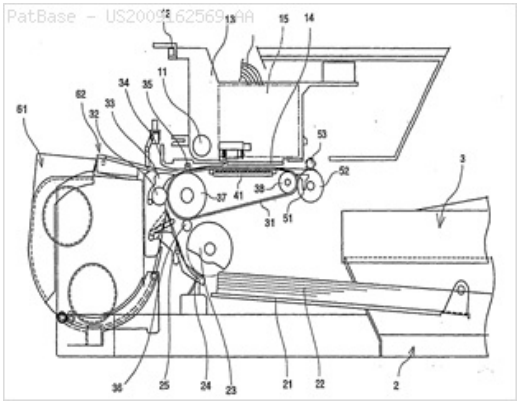
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255) Family number: 41653876 (US2009162569A)

Title: RECORDING INK, INK MEDIA SET, INK CARTRIDGE, INK RECORDED MATTER, INKJET RECORDING APPARATUS, AND INKJET RECORDING METHOD

Abstract: There is provided a recording ink containing: solid constituents, which contain a colorant and a resin, and stay solid in the ink having a temperature of 25 degrees centigrade; liquid constituents, which have a higher boiling point than a boiling point of water, and stay liquid in the ink having a temperature of 25 degrees centigrade; and water, wherein a total amount of the solid constituents in the recording ink is in the range of 2.0 percent by mass or more to less than 20 percent by mass, wherein a ratio A/B of a total amount of the liquid constituents in the recording ink A to the total amount of the solid constituents in the recording ink B is from 0.70 to 1.75, and wherein the viscosity of the recording ink at 25 degrees centigrade is 10 mPa s or less.

Classifications:
International (IPC 8-9): B05D5/06 B41J2/01 B41J2/135 B41J2/14 B41J2/145 B41J2/15 B41J2/16 B41J2/165 B41J2/17 B41J2/175 B41J2/18 B41J2/185 B41M5/00 C08K5/3417 C09D11/00 C09D11/322 C09D11/326 C09D11/38 (Advanced/Invention); B05D5/06 B41J2/01 B41J2/135 B41J2/17 B41M5/00 C08K5/00 C09D11/00 (Core/Invention)
CPC: B41J2/17593 B41J2/1606 B41J2/162 B41J2/1625 B41J2/1634 B41J2/1642 B41J2/1643 B41J2/1646 B41M5/0023 B41M5/52 C09D11/30
European: B41J2/16C B41J2/16G B41J2/16M2 B41J2/16M5L B41J2/16M8C B41J2/16M8P B41J2/16M8T B41J2/175M B41M5/00F C09D11/30 L41M5/52
US: 347/95 347/95S 427/256 427/256S 427/561 427/561P 524/88 524/88S



Family:

Publication number	Publication date	Application number	Application date
CN101379150 A	20090304	CN200780004351	20070912
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DE602007026873 D1	20130117	DE200760026873T	20070912
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Probable Assignee: RICOH CO LTD

Assignee(s): (std): ARUGA TAMOTSU ; GOTOH AKIHIKO ; MOROHOSHI NAOYA ; NAGAI KIYOFUMI ; NAMBA MICHIHIKO ; RICOH KK ; RICOH CO LTD

Assignee(s): RICOH CO ; RICOH COMPANY LTD ; RICOH K K

Inventor(s): (std): ARIGA TAMOTSU ; ARUGA TAMOTSU ; GOTO AKIHIKO ; GOTOH AKIHIKO ; MOROHOSHI NAOYA ; NAGAI KIYOFUMI ; NAMBA MICHIHIKO ; NANBA MICHIHIKO ; TAMOTSU ARIGA ; NAOYA MOROHOSHI ;

MICHIHIKO NANBA ; KIYOFUMI NAGAI ; AKIHIKO GOTO

Agent(s): MEISSNER BOLTE AND PARTNER GBR; BARZ PETER; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT LLP; HIROTA KOICHI

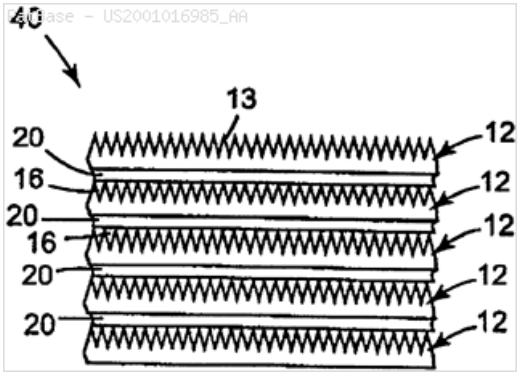
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256) Family number: 29242890 (US2001016985A)

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Title: MICROCHANNELED ACTIVE FLUID HEAT EXCHANGER METHOD

Abstract: A heat exchanger utilizing active fluid transport of a heat transfer fluid is manufactured with multiple discrete flow passages provided by a simple but versatile construction. The microstructured channels are replicated onto a film layer which is utilized in the fluid transfer heat exchanger. The surface structure defines the flow channels which are generally uninterrupted and highly ordered. These flow channels can take the form of linear, branching or dendritic type structures. A cover layer having favorably thermal conductive properties is provided on the structured bearing film surface. Such structured bearing film surfaces and the cover layer are thus used to define microstructure flow passages. The use of a film layer having a microstructured surface facilitates the ability to highly distribute a potential across the assembly of passages to promote active transport of a heat transfer fluid. The thermally conductive cover layer then effects heat transfer to an object, gas, or liquid in proximity with the heat exchanger.



Classifications:

International (IPC 8-9): A47L9/02 A61B19/00 A61B19/08 A61F13/00 A61F13/15 A61F13/20 A61F7/08 A61M1/00 A61M27/00 B01D39/14 B01D39/16 B01D61/18 B01D63/08 B01D69/06 B01D69/10 B01L3/00 B05C11/10 B05C17/00 B05D1/26 B29C39/14 B29C39/18 B29C43/22 B29C59/02 B29C59/04 B41J2/175 B43K5/02 B43K5/10 B43K5/18 B43K7/10 B81C99/00 C12M1/18 C12M1/32 C12M1/34 C12Q1/02 C12Q1/08 F28D1/03 F28F21/06 F28F3/04 F28F3/12 G01N35/00 G03F7/20 H01L21/027 (Advanced/Invention);
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G01N35/00 (Core/Non-invention)

International (IPC 1-7): A47L9/02 A61B19/00 A61B19/08 A61F13/00 A61F13/15 A61F13/20 A61F15/00 A61F7/08 A61M1/00 A61M1/100 A61M27/00 B01D29/05 B01D29/07 B01D37/00 B01D39/14 B01D39/16 B01D61/00 B01D63/08 B01D69/06 B01L3/00 B03C3/00 B05C17/005 B05C5/02 B21D39/06 B21D53/02 B21D53/06 B23P15/26 B29C39/14 B29C39/18 B29C43/22 B29C59/04 B29D11/00 B29D9/00 B32B3/00 B32B3/28 B41J2/175 B43K5/18 B43K7/10 C12M1/18 C12M1/32 C12M1/34 C12Q1/02 C12Q1/08 F23L15/02 F28D1/03 F28F13/18 F28F19/02 F28F21/06 F28F3/04 F28F3/12

CPC: Y10S428/906 Y10S366/03 Y10S428/913 B01D63/088 B01D2313/08 A47L9/02 A61F13/00068 A61F13/0216 A61F13/022 A61F13/025 A61F13/2017 A61F2013/00327 A61F2013/00412 A61F2013/00536 A61F2013/00651 A61F2013/0077 A61M27/00 B01D39/1692 B05C17/002 B29C39/148 B29C43/222 B29C59/022 B43K5/10 C12Q1/02 F28F3/04 G01N35/00009 B01L3/502707 B01L3/505 B01L2200/12 B01L2300/0816 B01L2300/0887 B01L2400/0415 B01D2313/143 B01D2313/146 A61M1/008 B01D61/18 B01D63/08 Y10T428/24562 Y10T428/2457 Y10T428/24612 Y10T428/24744 Y10T29/4935 Y10T29/49366 Y10T428/24942 Y10T428/2495 F28F3/048 F28F3/12 F28F21/065 F28F2260/02 Y10T428/31678 A61B46/00 A61B2046/236

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US: 128/849 128/849S 134/21 15/415.1 15/420 156/242 165/133 165/166 165/170 165/6 210/321.75 210/321.83 210/321.84 210/321.85 210/416.1 210/483 210/486 210/488 210/489 210/490 210/492 210/492S 210/644 210/649 210/767 264/1.6 264/1.7 29/890.03 29/890.030S 29/890.039 29/890.039P 347/86 366/DIG.3 42/817.2 42/845.7 42/890.6 422/100 422/100P 422/102 422/102S 422/502 422/502P 422/504 428/166 428/167 428/172 428/188 428/212 428/213 428/457 428/906 428/913 435/287.8 435/287.9 55/521 602/41 602/41S 602/42 602/43 602/43P 602/48 602/48P 602/52 604/304 604/304S 604/312 604/312S 604/313 604/317 604/319 604/322 604/378 604/385.01 604/543 604/543P 95/78 96/67 96/69

Family:

Publication number	Publication date	Application number	Application date
AU199885957 A1	19990222	AU19980085957	19980727
AU199926620 A1	20000105	AU19990026620	19990209
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AU199940032 A1	20000105	AU19990040032	19990518
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AU199940872 A1	20000105	AU19990040872	19990518
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AU199941798 A1	20000105	AU19990041798	19981027
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AU209940032 A1	20000105	AU19990040032	19990518
AU209940872 A1	20000105	AU19990040872	19990518
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AU743297 B2	20020124	AU19990040872	19990518
AU750275 B2	20020711	AU19990040031	19990518
AU750348 B2	20020718	AU19990040030	19990518
AU759696 B2	20030417	AU19990041905	19990518
BRPI9810844 A	20000725	BR1998PI10844	19980727
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CA2297140 AA	20000119	CA19982297140	19980727
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CN100374283 C	20080312	CN19998007377	19990518
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CN1141551 C	20040310	CN19998007395	19990518
CN1178705 C	20041208	CN19998007619	19990518
CN1305394 A	20010725	CN19998007475	19990518
CN1305410 A	20010725	CN19998007377	19990518
CN1305580 A	20010725	CN19998007395	19990518
CN1306446 A	20010801	CN19998007619	19990518
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DE69944609 D1	20130321	DE19996044609	19990518
EP1000169 A1	20000517	EP19980937185	19980727
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EP1087802 A1	20010404	EP19990923206	19990518
EP1087802 B1	20050914	EP19990923206	19990518
EP1087803 A1	20010404	EP19990924278	19990518
EP1087803 B1	20021204	EP19990924278	19990518
EP1087864 A1	20010404	EP19990923208	19990518
EP1087864 B1	20060308	EP19990923208	19990518
EP1087873 A1	20010404	EP19990906794	19990209
EP1087873 B1	20030723	EP19990906794	19990209
EP1088195 A1	20010404	EP19990923207	19990518
EP1088195 B1	20030312	EP19990923207	19990518
EP1094886 A1	20010502	EP19990924349	19990518
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EP1100607 A1	20010523	EP19980967071	19981027
EP1100607 B1	20040102	EP19980967071	19981027
EP1146838 A1	20011024	EP19990925660	19990518
EP1146838 B1	20091125	EP19990925660	19990518
EP2177185 A2	20100421	EP20090176871	19990518
EP2177185 A3	20100825	EP20090176871	19990518
EP2177185 B1	20130123	EP20090176871	19990518
EP2581066 A1	20130417	EP20130150916	19990518
ES2210863 T3	20040701	ES19980967071T	19981027
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JP2010111129 A2	20100520	JP20100023193	20100204
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JP4217378 B2	20090128	JP20000505329T	19980727
JP4307727 B2	20090805	JP20000554563T	19990209
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JP4527880 B2	20100818	JP20000554418T	19990518
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KR100618013 B1	20060831	KR20007014303	19990518
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US6867342 BB	20050315	US20010016744	20011211
US6907921 BB	20050621	US19980099632	19980618
US7781639 BB	20100824	US20020961091	20020114
US7910790 BB	20110322	US20100860967	20100823
WO0042958 A1	20000727	WO1999US10968	19990518
WO9906589 A1	19990211	WO1998US15575	19980727
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WO9965542 A1	19991223	WO1999US11020	19990518
WO9965593 A1	19991223	WO1998US22612	19981027
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WO9965664 A1	19991223	WO1999US11024	19990518
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Probable Assignee: 3M CO

Assignee(s): (std)**:** 3M COMPANY N D GES D STAATES D ; 3M INNOVATIVE PROPERTIES CO ; 3M INNOVATIVE PROPERTIES COMPANY ; 3M CO ; 3M CO MINNESOTA MINING AND MFG COMPANY ; 3M CO N D GES D STAATES D ; MINNESOTA MINING AND MFG ; THREE M INNOVATIVE PROPERTIES

Assignee(s): JOHNSTON RAYMOND P ; INSLEY THOMAS I ; MINNESTOTA MINING AND MFG CO ; MINNESOTA MINING AND MFG CO ST PAUL ; HUNTLEY DOUGLAS A ; QIU JEAN ; WILLIAMS MICHAEL G ; KREJCAREK GARY E ; WEI AI PING ; SCHOLZ MATTHEW T ; MINNESOTA MINING AND EVERY NEW PACK STRINGS RING CAMPANIA ; MINNESOTA MINING AND MFG CO ; MINNESTOTA MINING AND MFG ; MINNESOTA MINING AND MANUFACTURING COMPANY ST PAUL ; MINNESOTA MINING AND MANUFACTURING COMPANY ; THREE M INNOVATIVE PROPERTIES CO ; 3M CO N D GES D STAATES DELAWARE ST PAUL ; 3M CO NDGESD STAATES DELAWARE ST PAUL ; 3M COMPANY N D GES D STAATES DELAWARE ST PAUL ; 3M INNOVATIVE PROPERTIES CO SAINT PAUL ; CALHOUN CLYDE D ; BENTSEN JAMES G ; BERG JAMES G ; HALVERSON KURT J ; HEINECKE STEVEN B ; HENTZEN CHARLES A

Inventor(s): (std)**:** SCHOLZ MATTHEW T ; INSLEY THOMAS I ; BIERNATH ROLF W ; POIRIER RICHARD J ; MCCLURE DONALD J ; HALVERSON KURT J ; WILLIAMS MICHAEL G ; WEI AI PING ; QIU JUN ; CALHOUN CLYDE D ; KREJCAREK GARY E ; BERG JAMES G ; BENTSEN JAMES G ; JOHNSTON RAYMOND P ; HUNTLEY DOUGLAS A ; KNOLL RANDALL L ; INSLEY T I ; JOHNSTON R P ; BENTSEN G ; POIRIER J ; KURT J HALVERSON ; STEVEN B HEINECKE ; THOMAS I INSLEY ; CHARLES A HENTZEN ; TI INSLEY ; JUN QIU ; AI PING WEI ; RP JOHNSTON ; JAMES G BENTSEN ; JAMES G BERG ; RL KNOLL ; MATTHEW T SCHOLZ ;

MICHAEL G WILLIAMS ; DOUGLAS A HUNTLEY ; CLYDE D CALHOUN ; RANDALL L KNOLL ; GARY E KREJCAREK ; KNOLL L ; HUNTLEY A ; WILLIAMS G ; CALHOUN D ; BERG G ; KREJCAREK E ; HALVERSON J ; INSLEY I ; BIERNATH R W ; BENTSEN J G ; QIU JEAN ; HENTZEN CHARLES A ; HEINECKE STEVEN B ; KNOLL R L ; BIERNATH W ; JOHNSTON P

Inventor(s): JEAN QIU ; R L KNOLL ; RW BIERNATH ; JG BENTSEN ; RAYMOND P JOHNSTON ; HEINECKE STEVEN B SAINT PAUL ; JOHNSTON RAYMOND P SAINT PAUL ; SCHOLZ MATTHEW T SAINT PAUL ; HENTZEN CHARLES A SAINT PAUL ; J G BENTSEN ; R P JOHNSTON ; R W BIERNATH ; T I INSLEY ; ROLF W BIERNATH ; RICHARD J POIRIER

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR; OYEN WIGGS GREEN AND MUTALA LLP; VOSSIUS AND PARTNER; HOFMANN URSULA; Hofmann Ursula; WEINBERGER RUDOLF; TSURUTA JUNICHI; NISHIYAMA MASAYA; HIGUCHI SOTOJI; ISHIDA TAKASHI; KOGA TETSUJI; 3M INNOVATIVE PROPERTIES COMPANY; 3M INNOVATIVE PROPERTIES CO; CHRISTOPHER D; JAMES A; ROBERT W; HANSON KARL G; ROGERS JAMES A; GRAM CHRISTOPHER D; KARL G; MICHAEL G

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC 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 UZ VN YU ZA ZW

257) Family number: 30115901 (US2002131933A)

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Title: BIOPOLYMER MEMBRANE AND METHODS FOR ITS PREPARATION

Abstract: A biopolymermembrane in its substantially dry form having a thickness less than about 75 microns, a solvent content less than about 5 percent by weight of the membrane, a radius of curvature of less than about 5 centimeters, a density greater than about 1 grams per cubic centimetre, and a maximum pore size of about 20 microns.

Classifications:

International (IPC 8-9): A61B17/00 A61F2/00 A61K35/14 A61K38/00 A61K38/36 A61K38/48 A61K9/70 A61L15/32 A61L15/64 A61L27/00 A61L27/22 A61L27/26 A61L27/38 A61L27/44 A61L27/56 A61L27/60 A61L31/00 A61L31/04 A61L31/14 A61P43/00 B05B11/00 B05B11/02 C07K1/00 C07K14/00 C07K14/75 C07K16/00 C08J5/18 (Advanced/Invention);
A61F2/00 A61L27/00 B05B11/00 B05B11/02 (Advanced/Non-invention);
A61L15/16 A61L27/00 A61L31/00 A61L31/04 A61P43/00 C08J5/18 (Core/Invention);
A61F2/00 (Core/Non-invention)

International (IPC 1-7): A61B17/00 A61F13/00 A61F2/00 A61K31/715 A61K35/14 A61K38/00 A61K38/48 A61K39/395 A61K51/00 A61K9/70 A61L15/64 A61L27/00 A61L27/22 A61L27/38 A61L27/44 A61L27/56 A61L27/60 A61L31/00 A61M35/00 A61M37/00 A61M5/19 A61P43/00 B05B11/00 B05B7/08 C07K1/00 C07K14/00 C07K16/00 C08J5/18

CPC: A61B17/00491 A61B2017/00495 B05B11/0078 B05B11/02 A61L27/225 A61L27/26 A61L27/3804 A61L27/3808 A61L27/3813 A61L27/3886 A61L27/44 A61L27/56 A61L27/60 A61L31/046 A61L31/146 A61F2310/00377 A61L15/32 A61K38/363 A61K38/4833 A61L31/145 C07K14/75

European: A61B17/00L A61K38/36A A61K38/48K5 A61L15/32 A61L27/22F A61L27/26 A61L27/38B A61L27/38B2 A61L27/38B4 A61L27/38F A61L27/44 A61L27/56 A61L27/60 A61L31/04F6 A61L31/14F A61L31/14H C07K14/75 K61B17/00L2 K61F310/00A66F L05B11/00B11 L05B11/02

US: 424/1.11 424/1.110P 424/130.1 424/130.100S 424/422 424/423 424/423S 424/424 424/426 424/443 424/443S 424/94.64 424/94.640P 424/94.640S 514/12 514/13.6 514/13.600S 514/14.3 514/14.300S 514/14.6 514/14.600S 514/14.7 514/14.700S 514/15.2 514/15.200S 514/17.2 514/17.200S 514/2 514/54 514/54S 514/8.4 514/8.400S 514/9.3 514/9.300S 530/350 530/381 530/382 604/191 604/43 604/82

PatBase – US2002131933_AA

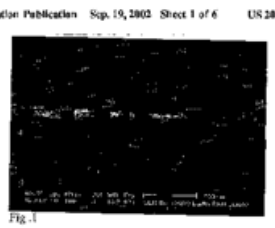
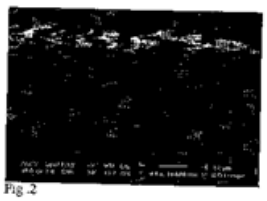
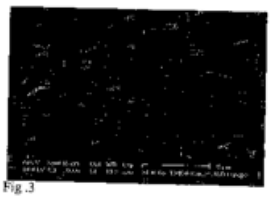


Fig .1


Fig .2


Fig .3

Family:

Publication number	Publication date	Application number	Application date
AR013829 AA	20010131	AR1997P103073	19970710
AT244584 E	20030715	AT19960901278T	19960116
AT333905 E	20060815	AT20010935252T	20010509
AU199645362 A1	19960807	AU19960045362	19960116
AU199737200 A1	19980209	AU19970037200	19970710
AU2001261359 AA	20011120	AU20010261359	20010509
AU200161359 A1	20011120	AU20010061359	20010509
AU200161359 A5	20011120	AU20010061359	20010509
AU2002356861 AA	20030506	AU20020356861	20021028
AU697045 B2	19980924	AU19960045362	19960116
CA2207992 AA	19970617	CA19962207992	19960116
DE60121828 D1	20060907	DE20016021828T	20010509
DE60121828 D1	20060907	DE20016021828	20010509
DE60121828 T2	20070809	DE20016021828T	20010509
DE69629010 D1	20030814	DE19966029010	19960116
DE69629010 T2	20040415	DE19966029010T	19960116
EP0804257 A1	19971105	EP19960901278	19960116
EP0804257 B1	20030709	EP19960901278	19960116
EP0917444 A1	19990526	EP19970934045	19970710
EP1395298 A2	20040310	EP20010935252	20010509
EP1395298 B1	20060726	EP20010935252	20010509
JP11502431 T2	19990302	JP19960522034T	19960116
US2002131933 AA	20020919	US20010004257	20011026

US2005271646 AA	20051208	US20050112156	20050422
US2006134094 AB	20060622	US20050112156	20050422
US2007148161 AA	20070628	US20070676904	20070220
US5989215 A	19991123	US19960679658	19960712
US6074663 A	20000613	US19970860864	19970828
US6461325 BA	20021008	US19990386198	19990831
US6599515 BA	20030729	US20000566372	20000508
US6835186 BA	20041228	US20000669353	20000926
US6965014 BA	20051115	US20000566019	20000508
WO0185225 A2	20011115	WO2001US15073	20010509
WO0185225 A3	20020328	WO2001US15073	20010509
WO03035115 A2	20030501	WO2002US34408	20021028
WO03035115 A3	20030717	WO2002US34408	20021028
WO9622115 A1	19960725	WO1996EP00160	19960116
WO9802098 A1	19980122	WO1997US11596	19970710

Priority:

DE19951001067	19950116	WO1996EP00160	19950116	DE19966029010	19960116
WO1996EP00160	19960116	US19960679658	19960712	WO1997US11596	19970710
US19990386198	19990831	US20000566372	20000508	US20000566019	20000508
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WO2001US15073	20010509	US20010004257	20011026	WO2002US34408	20021028
DE19951001067	20050116	US20050112156	20050422	US20070676904	20070220

Probable Assignee: BAXTER INT INC

Assignee(s): (std): BAXTER HEALTHCARE SA ; BAXTER INT ; DELMOTTE YVES ; BAXTER TRAVENOL LAB ; KRACK GENEVIEVE

Assignee(s): BAXTER INT INC ; BAXTER INTERNATIONAL INC ; BAXTER INTERNATIONAL INC DEERFIELD ; BAXTER HEALTHCARE S A

Inventor(s): (std): KENNEDY MARK ; DELMOTTE YVES ; KRACK GENEVIEVE ; BILSTAD ARNOLD ; AMRANI DAVID ; DIORIO JAMES ; YARDIMCI ATIF M ; PENNINGTON DAVID W ; SLEPICKA JAMES S ; STADLER CRISTINA ; BILSTAD ARNOLD C ; DELMOTTE YVES A ; DIORIO JAMES P ; PETERSEN ROBERT L ; PRYBELL JOSEPH F ; SLEPICKA JAMES ; WOMELSDORF JOHN ; MARK KENNEDY ; ARNOLD BILSTAD ; GENEVIEVE KRACK ; DAVID AMRANI ; JAMES DIORIO ; YVES DELMOTTE

Agent(s): PETER MAXWELL AND ASSOCIATES; MAXWELLS PATENT AND TRADE MARK ATTORNEYS PTY LTD; SIM AND MCBURNEY; BAXTER HEALTHCARE CORP; BELL BOYD AND LLOYD; JANICE; SENNIGER POWERS

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

258) Family number: 44452902 (US2010051717A)

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Title: ULTRASONIC ATOMIZER

Abstract: An ultrasonic atomizer includes a container, a separating membrane and an ultrasonic oscillator. The container defines an inner chamber therein. The separating membrane is disposed in the inner chamber. The separating membrane partitions the inner chamber into a bottom chamber and a top chamber, the bottom chamber is filled with a noncorrosive liquid. The ultrasonic oscillator is received in the bottom chamber and submerged in the liquid.

Classifications:
International (IPC 8-9): B05B1/08 C23C26/00 (Advanced/Invention); B05B1/02 (Core/Invention)
CPC: B05B17/0615
European: B05B17/06B1
US: 239/102.2

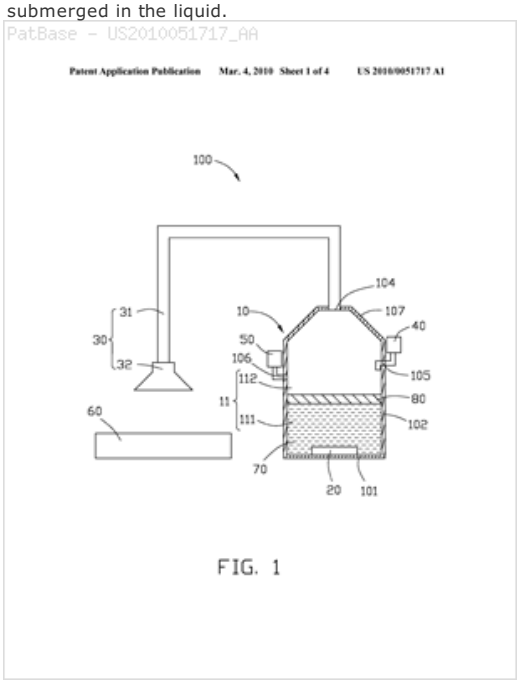


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
CN101660158 A	20100303	CN200810304244	20080827
US2010051717 AA	20100304	US20090470472	20090521

Priority:

CN200810304244 20080827

Probable Assignee: HON HAI PRECISION IND CO LTD

Assignee(s): (std): HON HAI PREC IND CO LTD ; HONGFUJIN PREC IND SHENZHEN ; HONGFUJIN PRECISION IND SHENZHEN CO LTD ; HONHAI PRECISION IND CO LTD

Assignee(s): HONGFUJIN PRECISION INDUSTRY SHENZHEN CO LTD ; HON HAI PRECISION IND CO ; HON HAI PRECISION IND CO LTD ; HON HAI PRECISION INDUSTRY CO ; HON HAI PRECISION INDUSTRY CO LTD ; HONGFUJIN PRECISION INDUSTRY SHENZHEN CO

Inventor(s): (std): PEI SHAO KAI ; SHAOKAI PEI

Inventor(s): PEI SHAOKAI

Agent(s): PCE IND INC ATT STEVEN REISS

259) Family number: 61544904 (US2017203322A)

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Title: PIEZOELECTRIC DISPENSER WITH A LONGITUDINAL TRANSDUCER AND REPLACEABLE CAPILLARY TUBE

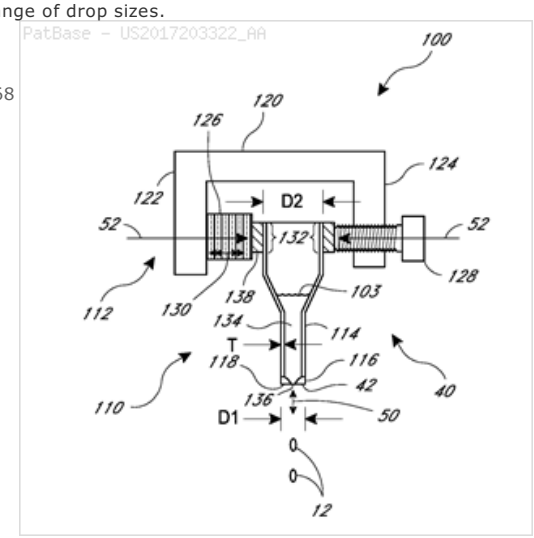
Abstract: A dispenser and methods for transferring liquids are disclosed. The dispenser may include a capillary tube with tip having an aperture, a piezoelectric actuator coupled to the capillary tube at a location. Actuation of the piezoelectric actuator causes a pressure wave to propagate along the capillary tube toward the tip such that radial motion at the location is transmitted as distally extending axial motion of the tip, thereby causing a droplet of a predetermined volume to be ejected from the aperture. In some embodiments, the capillary tube has a modulus of elasticity in a range which dampens acoustical noise from the actuation and provides single drop stability over a range of drop sizes.

Classifications:

International (IPC 8-9): B01J19/00 B01L3/02 B05B17/06 (Advanced/Invention)

CPC: B01J2219/00367 B01J2219/00378 B01J2219/00722 B01L3/0268 B01L2300/0838 B01L2300/123 B01L2300/165 B01L2400/0481 B05B17/0669 B05B17/0684 B01J19/0046

US: 1/1 239/4



Family:

Publication number	Publication date	Application number	Application date
CN106687221 A	20170517	CN201580040999	20150724
EP3171985 A1	20170531	EP20150825366	20150724
EP3171985 A4	20180314	EP20150825366	20150724
US2017203322 AA	20170720	US20150326457	20150724
WO16014976 A1	20160128	WO2015US42056	20150724

Priority:

US20140029152P 20140725 US20150326457 20150724 WO2015US42056 20150724

Probable Assignee: BIODOT INC

Assignee(s): (std): BIODOT INC

Inventor(s): (std): KUO ERIC P ; GUNSALUS SHANE ; TISONE THOMAS C ; ERVI EHUD ; IVRI YEHUDA ; TISONE THOMAS

Agent(s): ZACCO SWEDEN AB; ALTMAN DANIEL E

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

260) Family number: 34403906 (US2009114121A)

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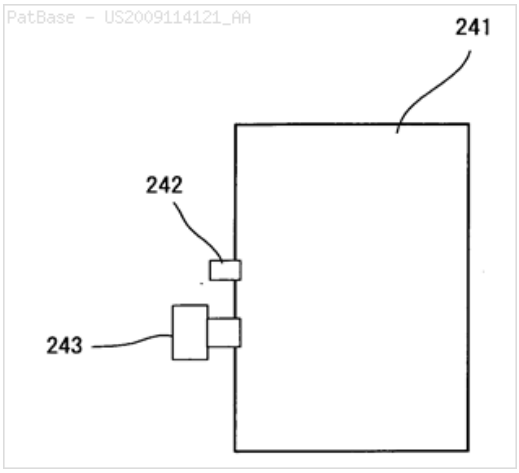
Title: RECORDING INK, RECORDING MEDIUM, INK MEDIA SET, INK RECORDED MATTER, INK JET RECORDING METHOD, AND INK JET RECORDING APPARATUS

Abstract: The present invention provides an ink-media set, record printed by use of the ink-media set, an inkjet printing method, and an inkjet printing apparatus which includes ink that has at least water, dye, and humectant and surface tension thereof is 20 to 35 mN/m at 25, a support, and a recording medium having the support and at least one surface thereof has a coating layer wherein transfer rate of the ink to the recording medium measured by a dynamic scanning absorptometer in 100 ms of contact time is 4 to 15 ml/m2 and transfer rate of the ink to the recording medium measured by a dynamic scanning absorptometer in 400 ms of contact time is 7 to 20 ml/m2.

Classifications:

International (IPC 8-9): B05D5/00 B41J2/01 B41J2/045 B41J2/055 B41J2/135 B41J2/14 B41J2/16 B41M5/00 B41M5/50 B41M5/52 C09D11/00 C09D11/02 C09D11/10 C09D11/322 C09D11/326 C09D11/328 C09D11/38 G01D11/00 (Advanced/Invention); C09D11/00 (Advanced/Non-invention); B05D5/00 B41J2/01 B41J2/045 B41J2/055 B41M5/00 B41M5/50 C09D11/00 C09D11/02 C09D11/10 G01D11/00 (Core/Invention)

CPC: B41M5/502 C09D11/40
European: B41M5/50 B41M5/50B C09D11/40
US: 106/31.13 106/31.130S 106/31.27 106/31.43 106/31.58 106/31.6 106/31.65 106/31.650S 106/31.75 106/31.85 106/31.850S 106/31.86 106/31.860P 347/100 347/100S 427/256 427/256P 428/32.1 428/32.100S 524/104 524/104S



Family:

Publication number	Publication date	Application number	Application date
CN101316718 A	20081203	CN200680044655	20061019
CN101316718 B	20140101	CN200680044655	20061019
DE602006034398 D1	20130321	DE200660034398T	20061019
EP1937485 A1	20080702	EP20060822289	20061019
EP1937485 A4	20110323	EP20060822289	20061019
EP1937485 B1	20130123	EP20060822289	20061019
JP2007216664 A2	20070830	JP20060285267	20061019
KR101003816 B1	20101228	KR20087012099	20061019
KR20080063849 A	20080707	KR20087012099	20061019
US2009114121 AA	20090507	US20060090751	20061019
US2010215855 AA	20100826	US20100716607	20100303
US8337607 BB	20121225	US20100716607	20100303
WO07046542 A1	20070426	WO2006JP321313	20061019

Priority:

JP20050305513 20051020 JP20060014104 20060123 EP20060822289 20061019
WO2006JP21313 20061019 WO2006JP321313 20061019 JP20060285267 20061019
US20080090751 20080418 US20100716607 20100303

Probable Assignee: RICOH CO LTD

Assignee(s): (std): MOROHOSHI NAOYA ; NAGAI KIYOFUMI ; OHSHIMA TOHRU ; RICOH CO LTD ; RICOH KK

Assignee(s): RICOH COMPANY LTD ; RICOH CO

Inventor(s): (std): NAGAI KIYOFUMI ; OHSHIMA TOHRU ; MOROHOSHI NAOYA ; OSHIMA SUSUMU ; NAOYA MOROHOSHI ; KIYOFUMI NAGAI ; TOHRU OHSHIMA ; NAGAL KIYOFUMI

Agent(s): MEISSNER BOLTE AND PARTNER GBR; BARZ PETER; Barz Peter; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT LLP

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

261) Family number: 49705908 (US2013034674A)

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Title: COMPOSITE STRUCTURAL MATERIAL FORMED PRODUCT AND PACKAGING MATERIAL USING THE SAME, METHOD FOR PRODUCING THE COMPOSITE STRUCTURAL MATERIAL, AND COATING LIQUID

Abstract: The composite structural material of the present invention includes a base (X) and a layer (Y) stacked on the base (X). The layer (Y) includes a reaction product (R) of a metal oxide (A) and a phosphorus compound (B). In the infrared absorption spectrum of the layer (Y) in the range of 800 to 1400 cm-1, the wave number (n1) at which the infrared absorption reaches maximum is in the range of 1080 to 1130 cm-1.

Classifications:
International (IPC 8-9): B05D3/00 B05D3/02 B05D7/24 B32B1/02 B32B1/08 B32B27/08 B32B27/10 B32B27/30 B32B27/32 B32B27/34 B32B27/36 B32B7/12 B32B9/00 B65D30/02 B65D35/10 B65D65/40 B65D65/42 B65D81/24 C07F9/09 C08J7/06 C08K5/52 C09D1/00 C09D105/00 C09D123/02 C09D123/04 C09D123/08 C09D129/04 C09D129/06 C09D133/02 C09D133/08 C09D133/10 C09D185/00 C09D185/02 C09D201/00 C09D201/02 C09D201/08 C09D7/12 C23C18/12 F16L59/06 (Advanced/Invention);
B32B1/08 B32B27/08 B32B27/10 B32B27/32 B32B27/34 B32B27/36 B32B7/12 (Advanced/Non-invention)
CPC: C09D129/04 B32B5/26 B32B7/12 B32B15/08 B32B15/082 B32B15/085 B32B15/088 B32B15/09 B32B15/10 B32B15/12 B32B15/14 B32B21/042 B32B21/06 B32B21/08 B32B21/10 B32B27/08 B32B27/10 B32B27/12 B32B27/20 B32B27/28 B32B27/281 B32B27/286 B32B27/288 B32B27/302 B32B27/306 B32B27/308 B32B27/32 B32B27/34 B32B27/36 B32B27/365 B32B29/005 B32B29/02 B32B29/06 B32B2250/02 B32B2250/03 B32B2250/04 B32B2250/05 B32B2250/24 B32B2255/10 B32B2255/12 B32B2255/20 B32B2255/205 B32B2255/26 B32B2255/28 B32B2274/00 B32B2307/306 B32B2307/31 B32B2307/4026 B32B2307/41 B32B2307/412 B32B2307/414 B32B2307/514 B32B2307/714 B32B2307/7244 B32B2307/7246 B32B2419/00 B32B2439/46 B32B2439/70 B32B2439/80 B32B2509/00 B32B2509/10 B32B2605/00 C08J7/045 C08J2367/02 C08J2377/00 C08K2201/008 C09D1/00 C09D123/02 C09D123/0846 C09D133/02 C23C18/1216 Y10T428/1303 Y10T428/1334 Y10T428/1393 Y10T428/31993 B05D3/007 C08J7/06
European: C09D123/02
US: 1/1 106/217.7 383/105 427/372.2 428/34.2 428/35.2 428/36.91 428/537.5 428/702 524/148 556/174

Family:

Publication number	Publication date	Application number	Application date
AU2011233415 AA	20111006	AU20110233415	20110330

AU2011233415 AA	20121025	AU20110233415	20110330
AU2011233415 BB	20150604	AU20110233415	20110330
CN102821945 A	20121212	CN201180016625	20110330
CN102821945 B	20150128	CN201180016625	20110330
DE602011027768 D1	20160804	DE201160027768T	20110330
EP2554367 A1	20130206	EP20110762278	20110330
EP2554367 A4	20130918	EP20110762278	20110330
EP2554367 B1	20160629	EP20110762278	20110330
ES2592510 T3	20161130	ES20110762278T	20110330
IN08948CN2012 A	20140214	IN2012CN08948	20121018
IN305011 B	20181228	IN2012CN08948	20121018
JP2011122036 A1	20130704	JP20110540255T	20110330
JP2011226644 A2	20111110	JP20110076357	20110330
JP4961054 B1	20120627	JP20110540255T	20110330
JP4961054 B2	20120627	JP20110540255T	20110330
JP5735835 B2	20150617	JP20110076357	20110330
KR101757180 B1	20170712	KR20127028287	20110330
KR20130018282 A	20130220	KR20127028287	20110330
US2013034674 AA	20130207	US20110638715	20110330
US2016096194 AA	20160407	US20150967823	20151214
US9260622 BB	20160216	US20110638715	20110330
WO11122036 A1	20111006	WO2011JP01936	20110330

Priority:

JP20100077032 20100330 EP20110762278 20110330 JP20110076357 20110330
JP20110540255 20110330 WO2011JP01936 20110330 US20120638715 20121001
US20150967823 20151214

Probable Assignee: KURARAY CO LTD

Assignee(s): (std): HIROSE WATARU ; KURARAY CO ; KURARAY CO LTD ; OMODA MAMORU ; YOSHIDA KENTARO ; SASAKI RYOICHI ; OSHITA TATSUYA ; SHIBATA MANABU

Assignee(s): KURARAY CO LTD KURASHIKI SHI

Inventor(s): (std): HIROSE KO ; HYODA MAMORU ; SHIBATA MANABU ; OSHITA TATSUYA ; SASAKI RYOICHI ; HIROSE WATARU ; YOSHIDA KENTARO ; OMODA MAMORU

Agent(s): PHILLIPS ORMONDE FITZPATRICK; BRUNETTI FABRIZIO; UNGRIA JAVIER; OBLON MCCLELLAND MAIER AND NEUSTADT LLP; KAMADA KOICHI 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

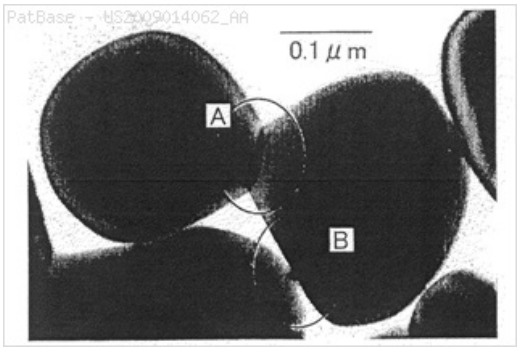
262) Family number: 32121909 (US2009014062A)

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Title: METAL OXIDE DISPERSION, METAL OXIDE ELECTRODE FILM, AND DYE SENSITIZED SOLAR CELL

Abstract: A metal oxide dispersion comprising metal oxide particles with a necking structure, and a solvent, wherein the liquid droplet contact angle of the metal oxide dispersion to an ITO film (Indium-Tin Oxide type film) formed is from 0 to 60 degrees. A metal oxide dispersion for the production of a dye-sensitized solar cell electrode, comprising Metal Oxide Particle Group F having a necking structure formed by m connected particles, Metal Oxide Particle Group G having only 0.2 m or less connected particles, and a solvent, and being formable into a film at 200 degrees centigrade or less. A metal oxide electrode comprising an electrically conducting substrate having thereon a metal oxide layer comprising metal oxide particles bound by a binder, wherein the binder content is from 0.005 to 5 mass percent based on the metal oxide film and the metal oxide layer has a pencil scratch strength of H or more according to JIS5600.

Classifications:
International (IPC 8-9): B01J19/08 B05D3/04 B05D3/06 B05D5/12 B32B15/08 B32B5/00 C01B13/14 C01G23/047 C04B35/01 C08K3/22 C09D1/00 G01N13/00 H01G9/20 H01L31/00 H01L31/04 H01L31/042 H01L31/18 H01M14/00 (Advanced/Invention);
H01G9/20 H01L31/042 (Advanced/Non-invention);
B01J19/08 B05D3/04 B05D3/06 B05D5/12 B32B15/08 B32B5/00 C04B35/01 C08K3/00 C09D1/00 G01N13/00 H01G9/20 H01L31/00 H01L31/04 H01L31/042 H01L31/18 H01M14/00 (Core/Invention)
International (IPC 1-7): H01G9/20 H01L31/04 H01L31/18 H01M14/00
CPC: H01G9/2031 H01G9/2036 H01G9/2059 Y02E10/542 Y02P70/521 Y10T428/31678
European: H01G9/20D2 H01G9/20D4 T01G9/20L Y02E10/50 Y02E10/54D
US: 106/287.18 106/287.19 136/256 205/688 427/537 427/553 427/77 428/220 428/457 524/1 524/548 524/555 524/556 524/599 524/606 524/612



Family:

Publication number	Publication date	Application number	Application date
AU2005207253 AA	20050804	AU20050207253	20050121
AU2005207253 BB	20081204	AU20050207253	20050121
CN1910713 A	20070207	CN200580002821	20050121
CN1910713 B	20100512	CN200580002821	20050121
EP1709651 A2	20061011	EP20050704233	20050121
EP1709651 B1	20160921	EP20050704233	20050121
EP2843675 A2	20150304	EP20140192991	20050121
EP2843675 A3	20150401	EP20140192991	20050121
JP2005235757 A2	20050902	JP20050014050	20050121
JP2006179444 A2	20060706	JP20050014370	20050121
JP2011222532 A2	20111104	JP20110164490	20110727

JP4873864 B2	20120208	JP20050014370	20050121
JP5345185 B2	20131120	JP20110164490	20110727
KR100896211 B1	20090507	KR20067013962	20050121
KR20060110352 A	20061024	KR20067013962	20050121
KR20080048548 A	20080602	KR20087009496	20050121
US2009014062 AA	20090115	US20050586540	20050121
WO05071704 A2	20050804	WO2005JP01180	20050121
WO05071704 A3	20060223	WO2005JP01180	20050121

Priority:

JP20040014971	20040122	JP20040014987	20040122	US20040541504P	20040204
US20040541503P	20040204	JP20040342808	20041126	EP20050704233	20050121
JP20050014370	20050121	JP20050014050	20050121	US20050586540	20050121
WO2005JP01180	20050121	WO2005JP01180	20060711	JP20110164490	20110727

Probable Assignee: SHOWA DENKO KK

Assignee(s): (std): KAYAMA SUSUMU ; KONDO KUNIO ; SHOWA DENKO KK ; WAKIZAKA YASUAKI

Assignee(s): SHOWA DENKO K K ; SHOWA DENKO KABUSHIKI KAISHA ; SHOWA DENKO KAYAMA SUSUMU WAKIZAKA YASUAKI KONDO K

Inventor(s): (std): SHIKAYAMA SUSUMU ; WAKISAKA YASUAKI ; YASUAKI WAKIZAKA ; SUSUMU KAYAMA ; KUNIO KONDO ; KONDO KUNIO ; WAKIZAKA YASUAKI ; KAYAMA SUSUMU ; KUNIO WAKIZAKA YASUAKI KAYAMA

Inventor(s): KONDO KUNIO C O CORPORATE R AND D CENTER ; KAYAMA SUSUMU C O SHOWA TITANIUM CO LTD ; WAKIZAKA YASUAKI C O SHOWA TITANIUM CO LTD ; WAKIZAKA YASUAKI KAYAMA SUSUMU KONDO KUNIO

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; STREHL SCHUEBEL HOPF AND PARTNER; AOKI ATSUSHI; ISHIDA TAKASHI; KOGA TETSUJI; SUGHRUE MION PLLC

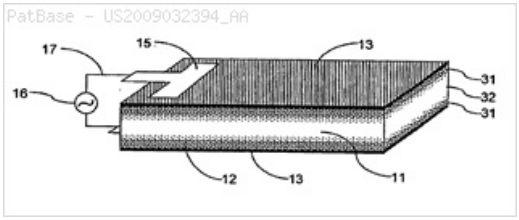
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU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

263) Family number: 34915912 (US2009032394A)

© PatBase

Title: IONIC POLYMER DEVICES AND METHODS OF FABRICATING THE SAME

Abstract: An embodiment provides an ionic polymer device comprising two extended electrode layers comprising a plurality of conductive particles, wherein the plurality of conductive particles form a concentration gradient in each of the two extended electrode layers, an ionic polymer dielectric layer between two extended electrode layers, and at least one conductive layer on outer surfaces of two extended electrode layers. Another embodiment provides an ionic polymer device comprising a polymer composite with a plurality of surface features on two opposite surfaces, and at least one conductive layer on each of said two opposite surfaces. One embodiment provides a method of making an ionic polymer device, comprising forming a partially cured polymer-metallic salt layer, reducing the metallic salt to form a plurality of metal particles, thereby forming a first extended electrode layer and a second extended electrode layer at and near opposite surfaces of the ionic polymer device.



Classifications:
International (IPC 8-9): B05D5/12 B32B27/00 B32B38/00 B32B5/16 B32B7/04 B32B9/04 C08G75/02 C08G75/23 C08J5/20 C08L101/02 C08L81/06 C23C14/34 F03G7/00 G01N27/28 G01N27/30 H01L41/45 H01M4/00 H01M8/04 H02N11/00 H02N2/00 (Advanced/Invention); B05D5/12 C08J5/20 C08L101/00 G01N27/28 G01N27/30 H01M4/00 H01M8/04 H02N11/00 (Core/Invention)
CPC: G01N27/406 F03G7/00 C08J5/2256 C08J2381/06 H01M8/1027 H01M8/1032 H01M8/1051 H01M8/1053 H01M8/1067 H01M8/1081 Y10T156/10 Y10T428/25 Y10T428/254 Y10T428/31504 Y10T428/31533 Y02P70/56 H01M8/0289 H01M4/8642 C08J5/20 F03G7/005 H01B1/122
European: C08J5/20 C08J5/22B2D F03G7/00 F03G7/00C G01N27/406 H01B1/12F H01M4/86G3 H01M8/10E2B10 H01M8/10E2B6 H01M8/10E2F4D H01M8/10E2F6 H01M8/10E2M H01M8/10E2P8 M08J381/06 T01M8/02E2 Y02E60/50
US: 156/150 156/150S 156/60 156/60S 204/242 204/242S 204/400 310/311 310/311P 427/58 427/77 427/77S 428/323 428/327 428/411.1 428/419 524/609 977/773 977/773S

Family:

Publication number	Publication date	Application number	Application date
CN101370858 A	20090218	CN200780002866	20070123
CN101942104 A	20110112	CN201010222968	20100702
CN101942104 B	20130501	CN201010222968	20100702
EP1991606 A2	20081119	EP20070718174	20070123
EP2273113 A2	20110112	EP20100168295	20100702
JP2009523905 T2	20090625	JP20080552376T	20070123
JP2011011549 A2	20110120	JP20100151964	20100702
JP5048106 B2	20121017	JP20100151964	20100702
KR20080091455 A	20081013	KR20087018677	20070123
KR20110003270 A	20110111	KR20100063055	20100630
US2009032394 AA	20090205	US20070161941	20070123
US2009301875 AA	20091210	US20090497610	20090703
US2010141085 AA	20100610	US20090613319	20091105
US8574716 BB	20131105	US20090613319	20091105
WO07084796 A2	20070726	WO2007US01853	20070123
WO07084796 A3	20080717	WO2007US01853	20070123

Priority:

US20060761175P	20060123	US20070161941	20070123	WO2007US01853	20070123
US20080161941	20080723	US20090497610	20090703	US20090613319	20091105

Probable Assignee: HITACHI CHEMICAL CO LTD

Assignee(s): (std): ASANO NAOKI ; FUKUCHI IWAO ; LI YANGYANG ; HITACHI CHEMICAL RES CT INC ; WU YONGXIAN ; HITACHI CHEMICAL CO LTD ; TAKEDA SHINJI ; TSAI ANTHONY H ; NAKAJIMA BUN ICHIRO ; HITACHI CHEMICAL RES CENTER INC

Assignee(s): HITACHI CHEMICAL RESEARCH CENTER INC ; HITACHI CHEMICAL COMPANY LTD ; HITACHI CHEM CO LTD ; HITACHI CHEMICAL CO

Inventor(s): (std): LI YANGYANG ; WU YONGXIAN ; YANGYANG LI ; YONGXIAN WU ; HAN KUAN ANTHONY TSAI ; H ANTHONY TSAI ; NAKAJIMA FUMIICHIRO ; BUN ICHIRO NAKAJIMA ; SHINJI TAKEDA ; TSAI HAN KUAN ANTHONY ; IWAO FUKUCHI ; NAOKI ASANO ; TSAI ANTHONY H ; FUKUCHI IWAO ; NAKAJIMA BUN ICHIRO ; ASANO NAOKI ; TAKEDA SHINJI

Agent(s): VOSSIUS AND PARTNER; KNOBBE MARTENS OLSON AND BEAR LLP

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

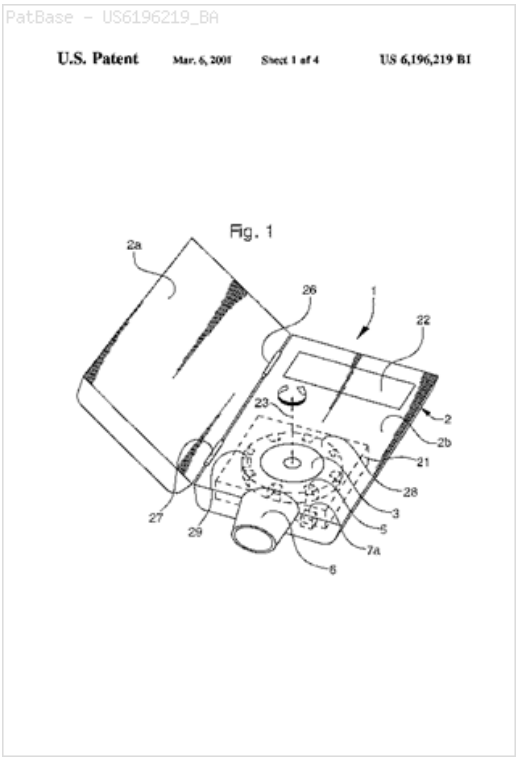
264) Family number: 29989913 (US6196219B)

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Title: LIQUID DROPLET SPRAY DEVICE FOR AN INHALER SUITABLE FOR RESPIRATORY THERAPIES

Abstract: The liquid droplet spray device (5) has a micromachined substrate (8, 18, 18a; 8a, 18, 18a), a space (9) within the substrate for containing a liquid substance (4), an inlet channel for supplying (7) the liquid (4) to the space (9), and outlet structure (13, 14, 15) for ejecting the liquid as a mono-dispersive droplet spray when the liquid undergoes a vibration. The outlet structure comprises a cut-off pyramid-shaped tapered cavity (13) which is micromachined in the space (9). The outlet structure further comprises at least one output (14) and output channel (15) connecting the tapered cavity (13) to the outlet (14), the outlet (14) and the output channel (15) having a non-tapered vertical shape. Thanks to such a device, the exact amount ejected may be determined accurately which allows for a predicted lung deposition of the droplets by using appropriate control means adapted to the kind of patient.

Classifications:
International (IPC 8-9): A61M15/00 B05B B05B12/08 B05B17/06 (Advanced/Invention)
International (IPC 1-7): A61M11/00 A61M15/00 B05B B05B17/06
CPC: A61M15/0048 A61M15/0085 B05B17/0638 B05B12/085 A61M11/001 A61M15/025 B05B15/50
European: A61M15/00F B05B12/08T B05B17/06B5 K61M15/00C2B2 L05B15/02
US: 128/200.14 128/200.21 239/102.2



Family:

Publication number	Publication date	Application number	Application date
DE1129741 T1	20020221	DE20010109402T	19980623
DE1149602 T1	20020404	DE20010116775T	19980623
DE69802252 D1	20011206	DE19986002252	19980623
DE69802252 D1	20011206	DE19986002252T	19980623
DE69802252 T2	20020704	DE19986002252T	19980623
DE69834210 D1	20060524	DE19986034210	19980623
DE69834210 D1	20060524	DE19986034210T	19980623
DE69834210 T2	20070104	DE19986034210T	19980623
DE69843354 D1	20150219	DE19986043354	19980623
DK0923957 T3	20020218	DK19980111497T	19980623
DK1129741 T3	20060807	DK19980109402T	19980623
DK1129741 T3	20060807	DK20010109402T	19980623
EP0923957 A1	19990623	EP19980111497	19980623
EP0923957 B1	20011031	EP19980111497	19980623
EP1129741 A2	20010905	EP20010109402	19980623
EP1129741 A3	20031210	EP20010109402	19980623
EP1129741 B1	20060412	EP20010109402	19980623
EP1149602 A2	20011031	EP20010116775	19980623
EP1149602 A3	20031210	EP20010116775	19980623
EP1149602 B1	20150107	EP20010116775	19980623
HK1036020 A1	20060623	HK20010106720	20010924

HK1036020 B	20060623	HK20010106720	20010924
US6196219 BA	20010306	US19980195699	19981119

Priority:

EP19970120287 19971119 EP19980111497 19980623 EP20010109402 19980623
EP20010116775 19980623

Probable Assignee: APTAR FRANCE SAS

Assignee(s): (std): MICROFLOW ENG SA ; APTAR FRANCE SAS ; MICROFLOW ENGINEERING SA

Assignee(s): EP SYSTEMS SA ; MICROFLOW ENGINEERING RUE JAQUET DROZ SA ; MICROFLOW ENGINEERING S A ; MICROFLOW ENGINEERING S A NEUENBURG NEUCHATEL

Inventor(s): (std): DE HEIJ BAS ; DE ROOIJ NICO ; SCHOOT BART VAN D ; BARRAUD CEDRIC ; ORTEGA ISABEL ; WEBER RAPHAEL ; BO HU ; HESS JOSEPH ; SCHOOT BART VAN DER ; HEIJ BAS DE ; ROOIJ NICO DE ; DE ROOIJ NICOLAAS FRANS ; BARRAUD C EACUTE DRIC ; WEBER RAPHA EUML L ; ISABEL ORTEGA ; BAS DE HEIJ ; BART VAN D SCHOOT ; RAPHAEL WEBER ; HU BO ; NICO DE ROOIJ ; JOSEPH HESS ; CEDRIC BARRAUD ; VAN DER SCHOOT BART

Inventor(s): BARRAUD C AND EACUTE DRIC ; WEBER RAPHA AND EUML L ; WEBER RAPHAE L ; BARRAUD Ce DRIC ; BART VAN DER SCHOOT

Agent(s): NOVAGRAAF; BALSTERS ROBERT; NTD PATENT AND TRADE MARK AGENCY LTD

Designated states: BE CH DE DK FR GB IT LI LU SE

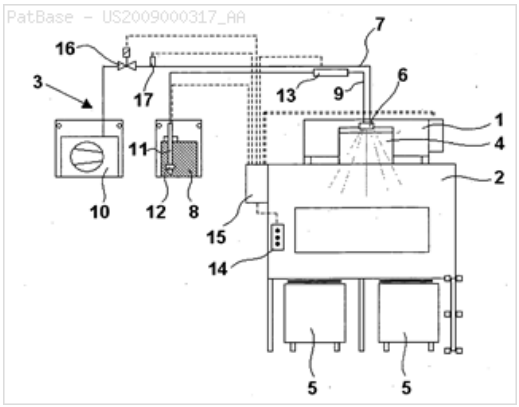
265) Family number: 42198916 (US2009000317A)

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Title: DEVICE AND METHOD FOR DISINFECTION OF ICE MACHINES, ICE SILOS AND/OR CHUTES FOR TRANSPORT OF ICE

Abstract: Device and method for disinfection of ice machines, ice silos, and/or chutes for transport of the ice, with a storage tank (8) for holding a disinfectant, with a pressure line (7) for the supply of pressurized carrier fluid, with at least one atomizer device (6) for atomizing the disinfectant and for generating a mixture of carrier fluid and disinfectant and with an inlet for introducing the carrier fluid/disinfectant mixture into the ice machine (1, 19, 23, 28, 32), the ice silo (2, 20, 24, 33), or the ice chutes (4, 21, 29, 34).

Classifications:
International (IPC 8-9): A61L2/18 A61L2/20 A61L2/22 B05B1/24 B05B15/00 B05B9/04 F24F3/16 F25C1/00 F28G9/00 (Advanced/Invention);
A61L101/22 (Advanced/Non-invention);
A61L2/20 B05B1/00 B05B15/00 B05B9/04 F24F3/16 (Core/Invention)
CPC: A61L2/208 A61L2/22 F25C1/00 F25C2400/12 F28G9/00
European: A61L2/22 F25C1/00 F28G9/00 K61L2/20H R25C400/12
US: 239/135 239/135S 239/338 239/338S 239/373 239/373S 422/28 422/28S 62/78 62/78P



Family:

Publication number	Publication date	Application number	Application date
CN101301480 A	20081112	CN200810087751	20080326
DE102007015584 A1	20081002	DE200710015584	20070329
EP1975528 A2	20081001	EP20080004576	20080312
EP1975528 A3	20111102	EP20080004576	20080312
US2009000317 AA	20090101	US20080079549	20080327

Priority:

DE200710015584 20070329

Probable Assignee: MAJA MASCHF HERMANN SCHILL GMBH AND CO KG

Assignee(s): (std): ROOS JOACHIM ; SCHILL JOACHIM ; SCHILL MAJA MASCH

Assignee(s): MAJA MASCHF HERMANN SCHILL GMBH ; MAJA MASCHF HERMANN SCHILL GMBH AND CO KG ; MAJA MASCHINENFABRIK HERMANN SCHILL GMBH AND CO KG

Inventor(s): (std): SCHILL JOACHIM ; ROOS JOACHIM ; JOACHIM ROOS ; JOACHIM SCHILL

Agent(s): LUCHT SILVIA; ORUM AND ROTH

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

266) Family number: 63734923 (WO16162271A1)

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Title: APPARATUS, USE OF THE APPARATUS AND METHOD FOR GENERATING A FLUID JET

Abstract: The invention relates to an apparatus (18) for subjecting a workpiece (12) to the impingement of a pressurized liquid medium (30). The apparatus comprises a nozzle module (22), which has a module body (24) with a chamber (26) formed therein, and has a device (28) for the supply of a pressurized liquid medium (30) into the chamber (26). According to the invention, the chamber (26) in the module body (24) for generating at least one fluid jet (20) from the liquid medium (30) is delimited by a chamber wall (44) in which there is formed at least one opening (60) for the emergence of the liquid medium (30).

Classifications:
International (IPC 8-9): B05B1/08 B05B1/14 B05B17/00 B05B17/06 B08B3/02 B08B3/10 B08B3/12 (Advanced/Invention);
B05B1/14 B05B17/06 (Advanced/Non-invention)
CPC: B05B1/08 B05B1/14 B05B17/0669 B08B2203/0288 B08B3/02

B05B17/0638

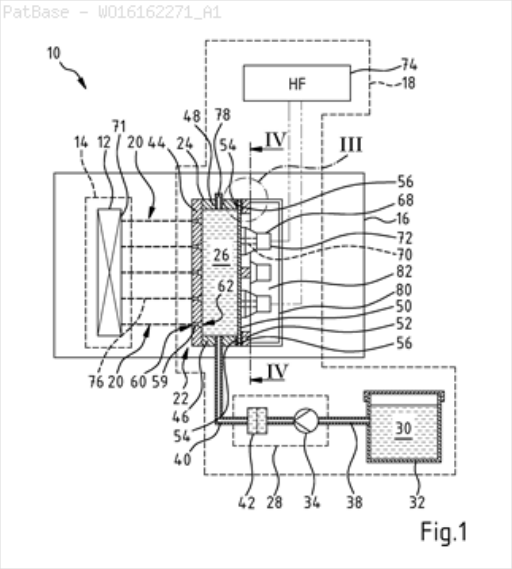


Fig.1

Family:

Publication number	Publication date	Application number	Application date
DE102015206233 A1	20161013	DE201510206233	20150408
DE112016001649 A5	20171221	DE201611001649T	20160331
WO16162271 A1	20161013	WO2016EP57151	20160331

Priority:

DE201510206233 20150408 WO2016EP57151 20160331

Probable Assignee: DUERR ECOCLEAN GMBH

Assignee(s): (std)**:** DUERR ECOCLEAN GMBH

Inventor(s): (std)**:** DAVID HERMANN JOSEF ; KAESKE EGON

Agent(s): GAUSS NIKOLAI ET AL

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

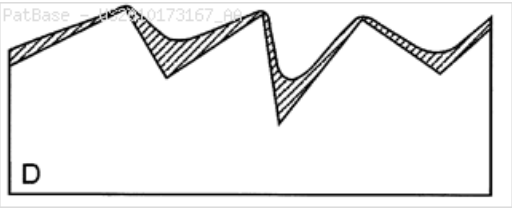
267) Family number: 42453926 (US2010173167A)

© PatBase

Title: METHOD FOR PRODUCING THIN LAYERS AND CORRESPONDING LAYER

Abstract: The invention relates to a coating method comprising the following steps a) providing a mixture or a pure substance comprising or consisting of inactive, liquid precursors, b) applying a liquid layer made up of the mixture or the pure substance to a surface to be coated, c) crosslinking the liquid precursors by means of radiation having a wavelength of ?250 nm, so that a solid layer is produced from the mixture and the layer comprises ?10 atomic percent of C, based on the quantity of the atoms contained in the layer without H and F, and so that the C contained in the layer is at most 50 atomic percent of the C, based on the quantity of the C atoms contained in the layer, constituent of a methoxy group. The invention further relates to layers which can be produced or are generated by means of this method and the uses thereof and also to corresponding coated items and the uses thereof.

Classifications:
International (IPC 8-9): B05D3/00 B05D3/06 B05D3/14 B05D5/08 B32B27/28 C08F2/46 C08F2/48 (Advanced/Invention); B05D5/08 (Advanced/Non-invention); B05D3/00 B05D3/06 B05D3/14 B05D5/08 B32B27/28 C08F2/46 (Core/Invention)
CPC: Y10T428/31663 B05D3/145 B05D3/06 B05D3/066 B05D5/08 B05D2202/00 B05D2202/25 B05D2203/30 B05D2601/20
European: B05D3/06 B05D3/14C5 B05D5/08 L05D202/00 L05D202/25 L05D203/30 L05D3/06C5C L05D601/20
US: 427/508 427/508S 427/515 427/515S 428/447 428/447P



Family:

Publication number	Publication date	Application number	Application date
DE102007020655 A1	20081106	DE200710020655	20070430
DE502008013697 D1	20160218	DE200850013697T	20080430
EP2144714 A2	20100120	EP20080749932	20080430
EP2527048 A2	20121128	EP20120181651	20080430
EP2527048 A3	20130116	EP20120181651	20080430
EP2527048 B1	20151230	EP20120181651	20080430
US2010173167 AA	20100708	US20080598087	20080430
WO08132230 A2	20081106	WO2008EP55351	20080430
WO08132230 A3	20090827	WO2008EP55351	20080430

Priority:

DE200710020655 20070430 EP20080749932 20080430 WO2008EP55351 20080430 EP20120181651 20080430

Probable Assignee: FRAUNHOFER GES

Assignee(s): (std)**:** FRAUNHOFER GES FORSCHUNG ; FRAUNHOFER GES ZUR FOERDERUNG DER ANGEWANDTEN

FORSCHUNG E V ; DOELLE CHRISTOPHER ; OTT MATTHIAS ; VISSING KLAUS DIETER

Assignee(s): FRAUNHOFER GES ; FRAUNHOFER GES ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG EV ; FRAUNHOFER GES ZUR FORDERUNG DER ANGEWANDTEN FORSC ; FRAUNHOFER GES ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG EV ; FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E V ; FRAUNHOFER-GESELLSCHAFT ZUR FOeRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.

Inventor(s): (std)**:** DOELLE CHRISTOPHER ; VISSING KLAUS DIETER ; OTT MATTHIAS

Agent(s): EISENFUEHR SPEISER PATENTANWAELTE RECHTSANWAELTE PARTGMBB; EISENFUEHR SPEISER AND PARTNER; EISENFUEHR SPEISER; WEINGARTEN SCHURGIN GAGNEBIN AND LEBOVICI LLP; DORFF GERNOT ET AL

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

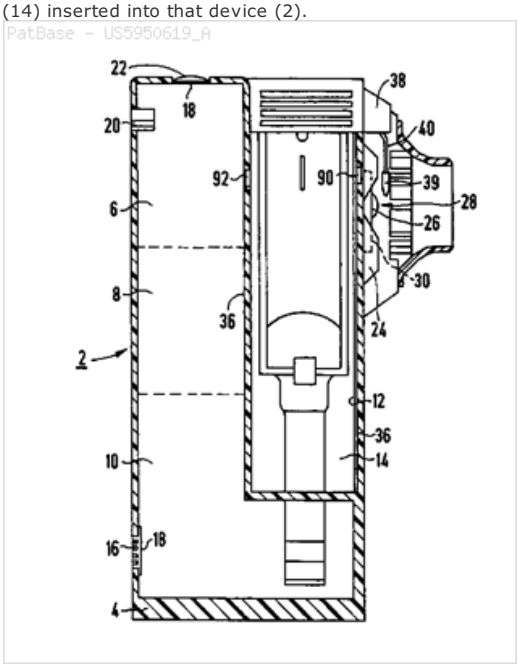
268) Family number: 31035928 (US5950619A)

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Title: ULTRASONIC ATOMIZER DEVICE WITH REMOVABLE PRECISION DOSATING UNIT

Abstract: PCT No. PCT/EP96/01095 Sec. 371 Date Sep. 10, 1997 Sec. 102(e) Date Sep. 10, 1997 PCT Filed Mar. 14, 1996 PCT Pub. No. WO96/28206 PCT Pub. Date Sep. 19, 1996The invention relates to an ultrasonic atomizer device (2) for a fluid (60), in particular a bronchospasmolytic agent, in which a propelling element (10) operable by an electronic circuit (6) to deliver the fluid to an atomization surface (28) that is also supplied with ultrasound waves from the electronic circuit (6) is provided in a housing (4), the propelling element (10) having a coupling member (32) which is meshing with a further coupling member (34) of a replaceable dosating unit (14) for transferring propelling power to the dosating unit (14) to effect a linear movement (68) of a piston (66) arranged in an ampoule (28) within the dosating unit (14). The invention also relates to a system comprising a device (2) as described and a dosating unit (14) inserted into that device (2).

Classifications:
International (IPC 8-9): A61M11/00 A61M15/00 A61M5/24 B05B17/06 (Advanced/Invention);
A61M11/00 (Advanced/Non-invention);
A61M11/00 A61M15/00 A61M5/24 B05B17/04 (Core/Invention)
International (IPC 1-7): A24D1/04 A61M05/24 A61M11/00 A61M11/06 A61M14/66 A61M15/00 A61M5/24 B05B11/02
CPC: A61M11/007 B05B17/0607 A61M15/0065 A61M15/0085 A61M11/005
European: A61M15/00D A61M15/00F B05B17/06B H02H3/40 K61M11/00M2
US: 128/200.14 128/200.16



Family:

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JP3142577 B2	20010307	JP19960527281T	19960314
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US5950619 A	19990914	US19970913246	19970910
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WO9628205 A1	19960919	WO1996EP01092	19960314
WO9628206 A1	19960919	WO1996EP01095	19960314
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ZA9602078 A	19960925	ZA19960002078	19960314

Priority:

DE19951009193 19950314 DE19951009194 19950314 DE19966005025 19960314
DE19966021604 19960314 WO1996EP01095 19960314 WO1996EP01092 19960314

Probable Assignee: SIEMENS AG

Assignee(s): (std): HAACK OLAF ; LINDEN KLAUS V D ; RUETTEL MARIN ; SIEMENS AKTIENGESELLSCHAFT ; RUETTEL MARTIN ; SINGH CHAWLA BRINDRA PAUL ; SIEMENS AG

Assignee(s): RUTTEL MARTIN ; VAN DER LINDEN KLAUS ; LINDEN KLAUS VAN D

Inventor(s): (std): MARTIN RUETTEL ; ANDLEAS JURISCH ; RUETTEL MARTIN ; SINGH CHAWLA BRINDA PAUL ; MARIN RUTTEL ; TIVIFIC SEZI ; MARTIN RUTTEL ; KLAUS VAN D LINDEN ; SINGH CHAWLA BRINDRA PAUL ; VAN DER LINDEN KLAUS ; RUETTEL MARIN ; BRINDRA PAUL SINGH CHAWLA ; OLAF HAACK ; A JURISCH ; T SEZI ; BRINDRA PAUL SINGH CHAWIA ; RUTTEL MARIN ; RUTTEL MARTIN ; HAACK OLAF ; LINDEN KLAUS VAN D ; SINGH CHAWIA BRINDRA PAUL ; CHAWLA BRINDRA PAUL SINGH ; R TTEL MARIN ; LINDEN KLAUS VAN DER

Inventor(s): KLAUS VAN DER LINDEN ; JURISCH ANDREAS DR 13587 BERLIN DE ; SEZI TEVFIK DR 12169 BERLIN DE

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

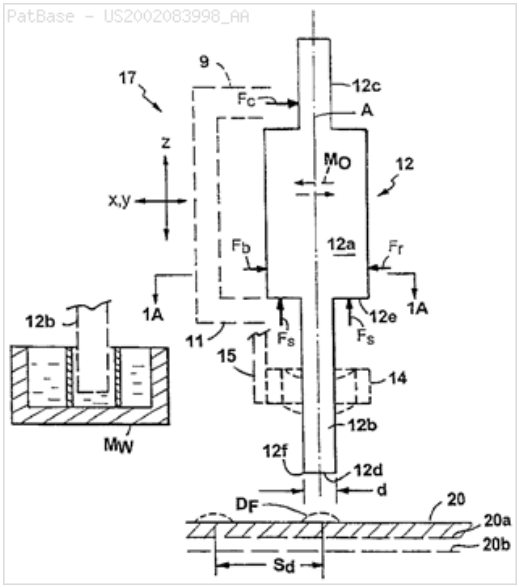
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269) Family number: 30108928 (US2002083998A)

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Title: DEPOSITING FLUID SPECIMENS ON SUBSTRATES, RESULTING ORDERED ARRAYS, TECHNIQUES FOR ANALYSIS OF DEPOSITED ARRAYS

Abstract: For depositing fluid dots in an array, e.g., for microscopic analysis, a deposit device, e.g. a pin, cooperating with a fluid source defines a precisely sized drop of fluid of small diameter on a drop carrying surface. Transport mechanism positions the device precisely over the receiving surface and drive mechanism moves the deposit device toward and away from the surface. By repeated action, minute drops of fluid can be deposited precisely in a dense array, preferably under computer control. The drop-carrying surface shown has a diameter less than 375, preferably less than 300, preferably between about 15 and 250 micron, and is bound by a sharp rim that defines the perimeter of the fluid drop. The deposit device is compliant in the direction of deposition motion, e.g. by overcoming resistance of a resilient member. When depositing, the deposit device is laterally constrained to a reference position, e.g. by flexure mounting or the deposit device is mounted to displace from its mounting upon engagement with the receiving surface, and is subject to a lateral force or turning moment that engages the device with a lateral reference surface. A mobile-fluid storage device resupplies the deposit device along the array, e.g. in the immediate vicinity of the deposit locations. Mobile annular storage rings are lowered and raised to obtain a supply of fluid, or a mobile multiwell plate is used. Cleaning mechanism, sampling plans, and array products on microscope slides and fragile or soft membranes are disclosed as are many types of fluid and uses, e.g., in biotechnology, analysis and process control.



Classifications:

International (IPC 8-9): B01J19/00 B01J4/00 B01L3/00 B01L3/02 B01L99/00 C12M1/00 C12M3/00 C12N15/09 C12Q1/68 C40B60/14 E21B19/087 G01J1/58 G01J3/30 G01N1/14 G01N21/27 G01N21/64 G01N35/10 G01N37/00 G02B21/00 G02B21/06 G02B21/16 G02B21/26 G02B21/34 G02B21/36 G02B26/08 G02B26/10 G12B13/00 G21K5/00 H01L21/00 (Advanced/Invention);
B01J4/00 B01L99/00 C12M1/00 C12N15/09 C40B60/14 G01N35/10 G01N37/00 G02B21/06 G02B21/16 G02B21/36 G02B26/10 (Advanced/Non-invention);
B01L3/02 E21B19/00 G01N21/64 G02B21/00 G02B21/16 G02B21/34 (Core/Invention);
C40B60/14 G01N35/10 (Core/Non-invention)

International (IPC 1-7): B01J4/00 B01L1/00 B01L11/00 B01L3/00 B01L3/02 B05C1/00 B08B3/00 B67C3/26 B67C3/34 C12M1/00 C12N15/09 G01J3/30 G01N1/00 G01N1/10 G01N1/14 G01N21/64 G01N23/04 G01N35/10 G01N37/00 G02B21/00 G02B21/00 G02B21/02 G02B21/06 G02B21/16 G02B21/26 G02B21/34 G02B21/36 G02B26/08 G02B26/08 G02B26/10 G02B7/02 G21K5/00

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European: B01J19/00C B01L3/02D B01L3/02D2 B01L3/02D2R B01L9/52 B01L9/543 B01L9/547 B82Y30/00 E21B19/087

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US: 118/243 118/263 118/300 134/22.1 134/44 134/50 134/85 134/88 141/1 141/279 15/302 15/303 15/320 204/600 250/201.3 250/458.1 250/458.100P 250/586 356/213 356/311 356/311S 356/317 356/317P 359/196 359/210 359/210.1 359/223.1 359/223.100S 359/225 359/225.1 359/368 359/368P 359/385 359/385S 359/391 359/392 359/393 359/394 359/656 359/813 378/44 422/100 422/100P 422/100S 422/104 422/400 422/400P 422/400S 422/500 422/502 422/547 422/63 427/256 427/64 427/64S 428/141 428/141S 435/287.2 435/287.200S 435/287.3 435/6 435/6.19 435/6.190P 435/6P 436/174 436/180 436/180P 438/1 438/1S 600/477

Family:

Publication number	Publication date	Application number	Application date
AT241156 E	20030615	AT19990912745T	19990319
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AU199921146 A1	19990802	AU19990021146	19990113
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CA2324354 AA	20000919	CA19992324354	19990319
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EP1055108 A4	20070502	EP19990901455	19990113
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US6984828 BB	20060110	US20020214221	20020807
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Priority:

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Probable Assignee: AFFYMETRIX INC

Assignee(s): (std)**:** AFFYMETRIX INC ; FLOWERS PETER T ; OVERBECK JAMES W ; MACE MYLES L ; HONKANEN PETER ; MONTAGU JEAN I ; GENETIC MICROSYSTEMS INC

Assignee(s): GENETIC MICROSYSTEMS INC WOBURN ; GENERAL ELECTRIC CAPITAL AGENT AS CORP ; GENETIC MICRO SYSTEMS INC ; BANK OF AMERICA NA ADMINISTRATIVE AGENT AS

Inventor(s): (std): OVERBECK JAMES W ; FLOWERS PETER T ; MACE MYLES L JR ; HONKANEN PETER ; MACE MYLES L ; MONTAGU JEAN I ; OVERBECK W ; MONTAGU JEAN

Inventor(s): OVERBECK JAMES ; FLOWERS PETER ; MACE MYLES ; JAMES W OVERBECK ; PETER T FLOWERS ; JEAN I MONTAGU ; MYLES L MACE JR ; PETER HONKANEN ; MYLES L MACE

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; SMART AND BIGGAR; UEXKUELL AND STOLBERG; AFFYMETRIX INC ATTN CHIEF IP COUNSEL LEGAL DEPT; IVAN D ZITKOVSKY; CHIEF INTELLECTUAL PATENT COUNSEL AFFYMETRIX INC; GREENBLUM AND BERNSTEIN PLC; IVAN DAVID; PHILIP L; WILLIAM

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

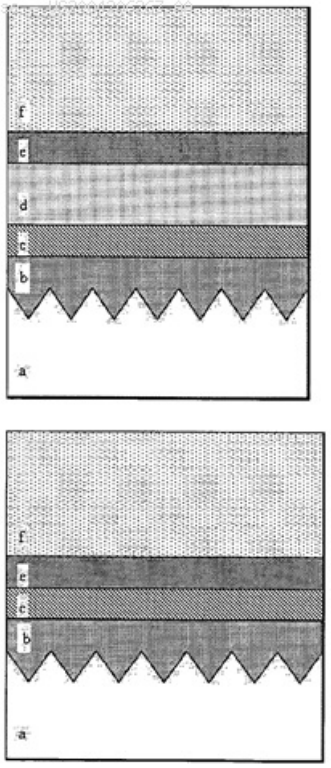
270) Family number: 31151933 (US2004206267A)

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Title: ALUMINUM PHOSPHATE COATINGS

Abstract: Aluminophosphate compounds and compositions as can be used for substrate or composite films and coating to provide or enhance, without limitation, planarization, anti-biofouling and/or anti-microbial properties.

Classifications:
International (IPC 8-9): B05D1/02 B05D1/38 B05D3/00 B05D3/02 B05D3/12 B05D5/12 B05D7/24 B32B15/04 B32B17/06 B32B9/00 B32B9/04 C03C17/22 C08L89/00 C09D1/00 C09K3/10 C23C16/22 C23C18/12 C23C26/00 (Advanced/Invention);
B05D3/12 B32B15/04 B32B17/06 B32B9/04 (Advanced/Non-invention);
B05D1/02 B05D1/38 B05D3/00 B05D3/12 B05D5/12 B32B15/04 B32B17/06 B32B9/00 B32B9/04 C08L89/00 C09D1/00 C09K3/10 C23C16/22 C23C18/00 (Core/Invention)
International (IPC 1-7): B05D1/02 B05D3/12 B32B17/06 B32B9/00 C01F C08L89/00 C09D1/00 C23C16/22 C23C18/1 C23C18/12
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Family:

Publication number	Publication date	Application number	Application date
AU2003304283 AA	20050121	AU20030304283	20031223
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AU2009251220 AA	20100128	AU20090251220	20091224
CA2529095 AA	20050622	CA20032529095	20031223
CN100473757 C	20090401	CN200380109126	20031223
CN101193744 A	20080604	CN200580033909	20051005
CN1742112 A	20060301	CN200380109126	20031223
EP1608791 A2	20051228	EP20030816416	20031223
EP1802455 A2	20070704	EP20050812559	20051005
IN01773CN2007 A	20070831	IN2007CN01773	20070430
IN02946DN2008 A	20080613	IN2008DN02946	20080409
IN02947DN2008 A	20100416	IN2008DN02947	20080409
IN03158DN2005 A	20070112	IN2005DN03158	20050715
IN218757 B	20080613	IN2005DN03158	20050715
JP2006515535 T2	20060601	JP20050503452T	20031223
JP2008516015 T2	20080515	JP20070534922T	20051005
JP5117857 B2	20130116	JP20070534922T	20051005
KR20050110613 A	20051123	KR20057011865	20031223
KR20070100238 A	20071010	KR20077010192	20070504
US2004206267 AA	20041021	US20030745955	20031223
US2006057407 AA	20060316	US20050244539	20051005
US2010279000 AA	20101104	US20070005019	20071221
US2012128993 AA	20120524	US20110236130	20110919
US7311944 BB	20071225	US20030745955	20031223
US8021758 BB	20110920	US20050244539	20051005

WO05003033 A2	20050113	WO2003US41130	20031223
WO05003033 A3	20050428	WO2003US41130	20031223
WO06042116 A2	20060420	WO2005US36167	20051005
WO06042116 A3	20061221	WO2005US36167	20051005

Priority:

US20020436063 20021223 US20020436063P 20021223 US20020436066P 20021223
AU20030304283 20031223 US20030745955 20031223 WO2003US41130 20031223
US20040615920 20041005 US20040615920P 20041005 US20040615986P 20041005
US20050244539 20051005 WO2005US36167 20051005 US20070005019 20071221
AU20090251220 20091224 US20110236130 20110919

Probable Assignee: APPLIED THIN FILMS INC

Assignee(s): (std): APPLIED THIN FILMS INC ; RANGAN KRISHNASWAMY K ; SAMBASIVAN SANKAR ; STEINER KIMBERLY A

Inventor(s): (std): SAMBASIVAN SANKAR ; STEINER KIMBERLY A ; RANGAN KRISHNASWAMY K ; SANKAR RANGAN KRISHNASWAMY K S ; KRISHNASWAMY K RANGAN ; SANKAR SAMBASIVAN ; KIMBERLY A STEINER ; STEINER KIMBERLEY A

Inventor(s): RANGAN KRISHNASWAMY ; RANGAN KRISHNASWAMY K STEINER KIMBERLY A SAMBASIVA ; KIMBERLEY A STEINER

Agent(s): PIZZEYS PATENT AND TRADE MARK ATTORNEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; FINLAYSON AND SINGLEHURST; REINHART BOERNER VAN DEUREN SC ATTN LINDA KASULKE DOCKET COORDINATOR; REINHART BOERNER VAN DEUREN SC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LI LK LR LS LT LU LV 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

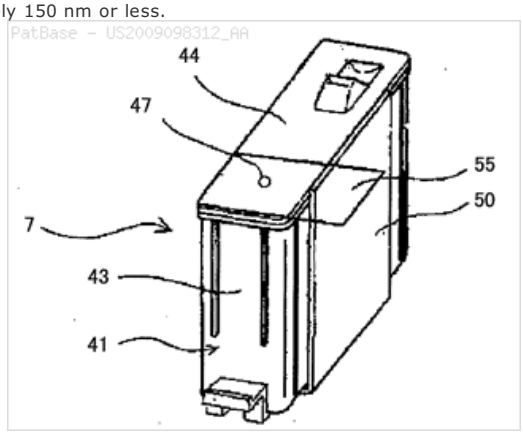
271) Family number: 36079937 (US2009098312A)

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Title: RECORDING INK, INK CARTRIDGE, INKJET RECORDING METHOD, AND INKJET RECORDING APPARATUS

Abstract: The present invention provides a recording ink including a composite pigment particle, a water-soluble solvent, and water, wherein the composite pigment particle is a primary particle coated with a coating resin, wherein the primary particle is a white pigment on the surface of which an oil-soluble dye is adsorbed or attached. In one aspect, the white pigment is preferably at least one selected from a white inorganic pigment, a pearl pigment, and an extender pigment, in another aspect, the coating resin is preferably one of a (meth)acrylic resin, a polyester resin, and a polyurethane resin, wherein the acid value of the coating resin is from 50 mgKOH/g to 250 mgKOH/g, and in another aspect, an average particle diameter (D50 percent) of the composite pigment particle is preferably 150 nm or less.

Classifications:
International (IPC 8-9): B05D1/12 B41J2/01 B41M5/00 C08G18/28 C08L33/06 C08L67/00 C09C3/10 C09D11/00 C09D11/322 C09D11/326 C09D11/328 C09D11/38
G01D11/00 (Advanced/Invention);
B41J2/01 B41M5/00 C09C3/10 C09D11/00 (Advanced/Non-invention);
B05D1/12 B41J2/01 B41M5/00 C08G18/00 C08L33/00 C08L67/00 C09C3/10 C09D11/00 (Core/Invention)
CPC: B41J2/17513 B41J2/17553 C09D11/322
European: B41J2/175C2 B41J2/175C8 C09D11/322
US: 106/31.6 347/100 347/95 427/256 427/256S 427/595 427/595P 524/560 524/560S 524/590 524/590S 524/601 524/601S



Family:

Publication number	Publication date	Application number	Application date
CN101400750 A	20090401	CN200780008492	20070309
CN101400750 B	20111130	CN200780008492	20070309
DE602007019682 D1	20120308	DE200760019682T	20070309
EP1994102 A1	20081126	EP20070738750	20070309
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EP1994102 B1	20111228	EP20070738750	20070309
JP2007270143 A2	20071018	JP20070060129	20070309
JP5347229 B2	20131120	JP20070060129	20070309
KR101031797 B1	20110429	KR20087023786	20070309
KR20080100279 A	20081114	KR20087023786	20070309
US2009098312 AA	20090416	US20070282437	20070309
US8109622 BB	20120207	US20070282437	20070309
WO07105806 A1	20070920	WO2007JP55303	20070309

Priority:

JP20060065610 20060310 EP20070738750 20070309 JP20070060129 20070309
WO2007JP55303 20070309

Probable Assignee: RICOH CO LTD

Assignee(s): (std): GOTO HIROSHI ; MATSUYAMA AKIHIKO ; NAGAI KIYOFUMI ; RICOH CO LTD ; RICOH KK

Assignee(s): RICOH COMPANY LTD ; RICOH CO

Inventor(s): (std): NAGAI KIYOFUMI ; GOTO HIROSHI ; MATSUYAMA AKIHIKO ; HIROSHI GOTO ; AKIHIKO MATSUYAMA ; KIYOFUMI NAGAI

Inventor(s): GOTO HIROSHI ATSUGI SHI ; NAGAI KIYOFUMI MACHIDA SHI ; MATSUYAMA AKIHIKO ISEHARA SHI

Agent(s): MEISSNER BOLTE AND PARTNER GBR; BARZ PETER ET AL; BARZ PETER; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT LLP

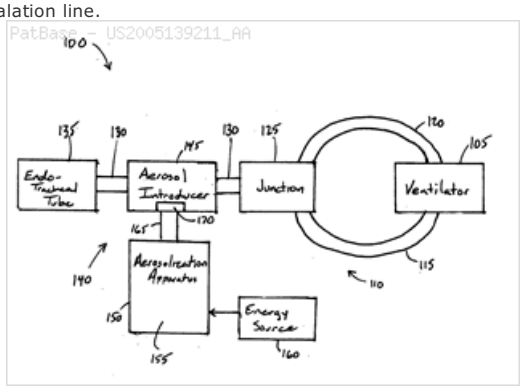
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272) Family number: 31958940 (US2005139211A)

Title: INTRODUCING AEROSOL INTO A VENTILATOR

Abstract: An aerosol introducer is provided for introducing an aerosolized pharmaceutical formulation into a ventilator circuit. The ventilator circuit comprises an endotracheal tube, an inhalation line extending from a ventilator, and an exhalation line extending from the ventilator. The aerosol introducer comprises a first end connectable to the inhalation line and the exhalation line; a second end connectable to the endotracheal tube; a first channel extending from the first end to the second end; a second channel extending from the first end to the second end; an inlet in the first channel, the inlet being adapted to receive an aerosolized pharmaceutical formulation; and a valving mechanism comprising one or more valves that reduce the loss of aerosolized pharmaceutical formulation to the exhalation line.

Classifications:
International (IPC 8-9): A61K31/7036 A61K38/00 A61K38/14 A61K9/12 A61M11/00 A61M15/00 A61M16/00 A61M16/04 A61M16/06 A61M16/08 A61M16/14 A61M16/20 A61P31/04 A62B9/02 B05B12/02 (Advanced/Invention);
A61K9/12 A61M15/00 A61M16/00 A61M16/04 A61M16/06 (Advanced/Non-invention)
International (IPC 1-7): A61K31/7036 A61K38/14 A61K9/00 A61K9/12 A61M11/00 A61M15/00 A62B9/02 B05B12/02
CPC: A61M16/147 A61M16/204 A61M11/00 A61K31/7036 A61M16/08 A61M16/0816 A61M16/14 A61M16/20 A61M16/208 A61M2016/0036 A61M11/005 A61M16/0009 A61M16/0825 A61M16/0833 A61M15/00
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US: 128/200.14 128/200.140 128/200.140P 128/200.21 128/200.210 128/200.210S 128/203.12 128/205.24 128/205.240 128/205.240S



Family:

Publication number	Publication date	Application number	Application date
AT432064 E	20090615	AT20040819171T	20041117
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KR20060124626 A	20061205	KR20067011606	20041117
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Priority:
US20030523011P 20031117 US20040991092 20041117 WO2004US38503 20041117

Probable Assignee: NEKTAR THERAPEUTICS

Assignee(s): (std): ALSTON WILLIAM W ; DWIVEDI SARAVAJNA K ; DWIVEDI SARVAJNA K ; NEKTAR THERAPEUTICS ; NOVARTIS AG ; TUCKER GUY V

Assignee(s): NOVARTIS PHARMA AG

Inventor(s): (std): ALSTON WILLIAM W ; DWIVEDI SARAVAJNA K ; TUCKER GUY V ; ALSTON WILLIAM ; DWIVEDI SARAVAJNA ; TUCKER GUY ; SARAVAJNA K DWIVEDI ; WILLIAM W ALSTON ; GUY V TUCKER ; DWIVEDI SARVAJNA K

Inventor(s): DWIVEDI SARVAJNA

Agent(s): GRIFFITH HACK; GOWLING LAFLEUR HENDERSON LLP; WYTENBURG WILHELMUS JOHANNES ET AL; NEKTAR THERAPEUTICS; JANAH AND ASSOCIATES 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

273) Family number: 51043944 (US2012103815A)

Title: FLUID TREATMENT SYSTEMS

Abstract: Systems and methods for treating a fluid by passing fluid through a treatment structure, the fluid containing undesirable living things, the treatment structure containing electrically conductive nanomaterial with silver, flowing an

electric current in the fluid in the treatment structure via the electrically conductive nanomaterial with silver or silver material to kill undesirable living things in the treatment structure, and killing undesirable things in the treatment structure.

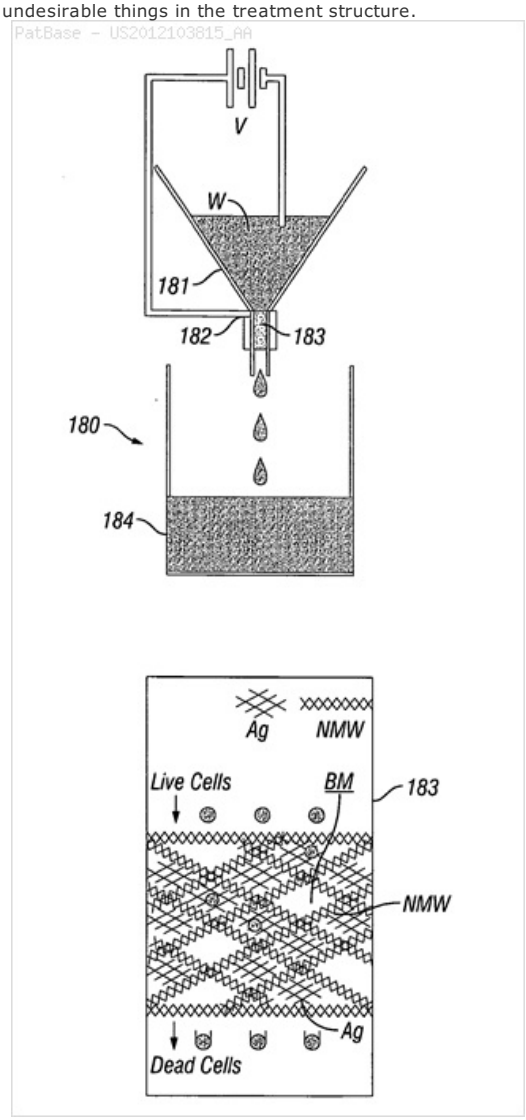
Classifications:

International (IPC 8-9): A61L2/00 A61L2/18 A61L9/00 B01D11/02 B01D12/00 B01D15/00 B01D17/00 B01D37/00 B03C1/30 B03C5/02 B05D7/14 B07B1/34 B07B1/46 B82Y15/00 B82Y30/00 C02F1/02 C02F1/48 C09K8/60 C09K8/80 E21B21/06 E21B43/08 E21B47/00 E21B47/10 E21B47/12 E21B7/12 G01R29/10 (Advanced/Invention); A61L2/03 B01D11/04 B82Y15/00 B82Y30/00 B82Y99/00 C02F1/36 C02F1/48 H01L41/113 H02N2/18 (Advanced/Non-invention)

CPC: E21B17/006 E21B41/00 E21B47/122 B03C3/017 A61L2/0023 A61L2/0047 A61L2/0058 A61L2/0064 B07B13/18 B07B1/46 B07B1/4609 B07B1/56 B07B1/62 B07B2201/04 B07B1/34 Y10S977/902 B07B1/4672 B82Y15/00 E21B43/14 E21B43/267 E21B43/34 E21B47/1015 E21B21/065 A61L2/03 C02F1/36 E21B43/088 H01L41/113 H02N2/186 B03C1/30 B03C5/02 B03C2201/18 B82Y30/00 C02F2209/02 C02F2303/04 C02F2305/08 B01D43/00 A61M1/3618 A61M2205/0272 B01D21/262 B03C1/01 B03C1/02 B03C5/00 B03C2201/20 C02F1/48 C02F1/481 C02F2103/08 C02F2103/10 C25D15/00 C02F1/02 C02F1/484 E21B47/124

European: B03C1/30 B03C5/02 B82Y15/00 B82Y30/00 C02F1/02 E21B17/00M E21B21/06N2 E21B41/00 E21B43/08W E21B43/14 E21B43/267 E21B43/34 E21B47/10G E21B47/12M E21B47/12S L03C201/18 M02F1/36 M02F1/48E M02F209/02 M02F303/04 M02F305/08 T01L41/113 T02N2/18V

US: 10/222 10/223 166/250.12 166/250.120P 166/75.12 175/40 204/554 204/554S 204/557 204/660 204/660S 204/664 204/665 204/665S 209/346 209/408 210/222 210/223 210/748.01 210/764 210/767 422/22 422/23 422/255 422/261 422/28 507/200 507/200S 507/269 507/269P 977/700 977/700S 977/734 977/734S 977/742 977/742S 977/750 977/750S 977/752 977/752S 977/755 977/755S 977/762 977/762S 977/773 977/773S 977/779 977/779S 977/832 977/832S 977/838 977/838S 977/902 977/902S



Family:

Publication number	Publication date	Application number	Application date
US2012103815 AA	20120503	US20110317588	20111021
US2012132418 AA	20120531	US20110373283	20111109
US2012168314 AA	20120705	US20120374701	20120106
US2012178653 AA	20120712	US20120374573	20120103
US2012222854 AA	20120906	US20110374243	20111216
US2013277281 AA	20131024	US20130815307	20130219
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US8911676 BB	20141216	US20120374701	20120106
US8973656 BB	20150310	US20110373283	20111109
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WO12115717 A2	20120830	WO2012US00105	20120223
WO12115717 A3	20140417	WO2012US00105	20120223
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Priority:

US20100317588 20101021
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US20110573894P 20110914
US20110374243 20111216
US20120633980P 20120221
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US20110317588 20111021
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US20100456307P 20101104
US20110463951P 20110224
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US20110373283 20111109
US20120374701 20120106
US20130815307 20130219

Probable Assignee: MCCLUNG III GUY L

Assignee(s): (std): MCCLUNG GUY L III ; MCCLUNG GUY L IV ; MCCLUNG III GUY L

Assignee(s): MCCLUNG GUY L

Inventor(s): (std): MCCLUNG III GUY L ; MCCLUNG GUY L III ; MCCLUNG GUY L IV

Inventor(s): MCCLUNG GUY L

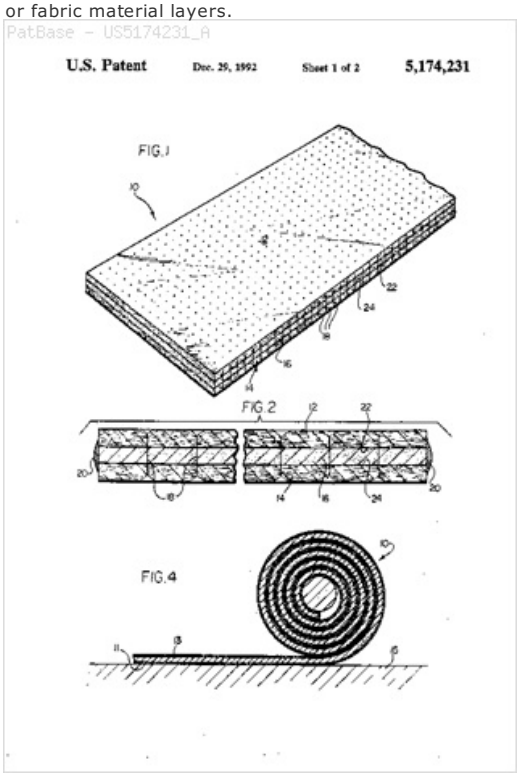
Agent(s): GUY; MCCLUNG III GUY L

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 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

274) Family number: 11675949 (US5174231A)

Title: WATER-BARRIER OF WATER-SWELLABLE CLAY SANDWICHED BETWEEN INTERCONNECTED LAYERS OF FLEXIBLE FABRIC NEEDLED TOGETHER USING A LUBRICANT

Abstract: A multi-layer article of manufacture includes an intermediate layer of a water-swellable colloidal clay, such as bentonite, sandwiched between two layers of flexible sheet or fabric material wherein the two flexible layers of sheet or fabric material are structurally interconnected through the intermediate clay layer, such as by needle punching, after lubrication of the clay with a liquid, such as water, to interconnect fibers of one fabric layer to the other fabric layer at spaced locations over essentially the entire inner surface areas of both sheet or fabric material layers.



Classifications:
International (IPC 8-9): B05D1/38 B09B1/00 B32B29/00 B32B33/00 B32B5/02 B32B5/06 B32B5/08 B32B5/16 B32B5/26 B32B5/30 B32B7/02 B32B7/08 D04H1/40 D04H1/48 D04H3/08 D04H5/02 D06M11/00 D06M11/79 D06M15/00 D06M17/00 D06M23/00 D06M23/08 D06N7/02 D06N7/06 E02B3/12 E02D19/16 E02D3/00 E02D31/00 E02D31/02 E02D5/18 E04B1/64 (Advanced/Invention); B32B5/02 B32B5/16 D06M101/00 D06M101/16 D06M101/30 E02D3/00 E02D5/18 E04B1/64 (Advanced/Non-invention); B09B1/00 B32B5/02 B32B5/16 D04H5/00 D06M17/00 D06M23/00 D06M23/08 D06N7/00 E02B3/12 E02D19/00 E02D3/00 E02D31/00 E02D5/18 E04B1/64 (Core/Invention)
International (IPC 1-7): B01D39/00 B01J B05D1/38 B09B B09B1/00 B28C5/40 B32B19/00 B32B29/00 B32B31/16 B32B33/00 B32B5/02 B32B5/06 B32B5/08 B32B5/16 B32B5/22 B32B5/26 B32B5/30 B32B7/02 B32B7/08 B32B9/00 B32B9/04 C02F1/42 C04B D04H1/111 D04H1/40 D04H1/41 D04H1/46 D04H1/48 D04H3/08 D04H5/02 D06M101/00 D06M11/00 D06M11/77 D06M11/79 D06M15/00 D06M17/00 D06M23/00 D06M23/08 D06N7/02 D06N7/06 E01C11/24 E01C7/26 E02B3/12 E02B3/16 E02B5/02 E02D19/16 E02D3/00 E02D3/12 E02D31/00 E02D31/00 E02D31/02 E02D5/18 E04B1/64 E04C1/00
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Family:

Publication number	Publication date	Application number	Application date
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ES2132191 T3	19990816	ES19930305662T	19930719

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HK1013319 A1	20000519	HK19980114514	19981221
HK187496 A	19961018	HK19960001874	19961010
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IE912069 A1	19920617	IE19910002069	19910617
JP2049044 C3	19960425	JP19910239392	19910919
JP2562274 B2	19961211	JP19930278003	19931108
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US5174231 A	19921229	US19900628497	19901217
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Priority:

US19900628497 19901217 US19910677005 19910402 US19910677055 19910402
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CA19912041081 19910424 AU19910075992 19910426 US19920986112 19921204
US19920990988 19921216 US19920990989 19921216 CA19932100100 19930708
CA19932100100 19930708

Probable Assignee: AMCOL INT

Assignee(s): (std)**:** ELECTRO MATERIALS ; AMCOL INT CORP ; AMERICAN COLLOID CO

Assignee(s): ANKORU INTERN CORP ; AMCOL INT CORP ARLINGTON HEIGHTS ILL US ; AMCOL INT CORP ARLINGTON HEIGHTS ; AMCOL INT ; AMCOL INT A DELAWARE CORP ; ELECTRO MATERIALS CORP OF AMERICA MAMARONECK N Y ; AMERICAN COLLOID CO A DE CORP ; ELECTRO MATERIALS CORP OF AMERICA MAMARONECK N Y US ; AMERICAN COLLOID CO A CORP OF DE ; AMERICAN COLLOID CO A DELAWARE CORP ; WHITE ALEC W ; ELECTRO MATERIALS CORP OF AMERICA MAMARONECK NY

Inventor(s): (std)**:** ALEC W WHITE ; ARETSUKU DABURIYUU HOWAITO ; WHITE ALEC W

Inventor(s): ARETSUKU DABURYUU HOWAITO ; WHITE ALEC W ILLINOIS 60194 US

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

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

275) Family number: 12945955 (US6405934B)

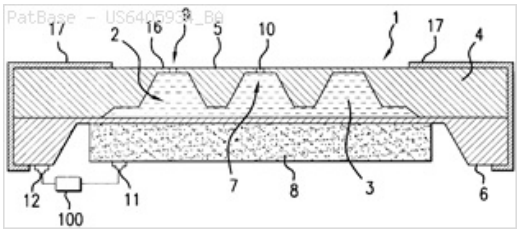
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Title: OPTIMIZED LIQUID DROPLET SPRAY DEVICE FOR AN INHALER SUITABLE FOR RESPIRATORY THERAPIES

Abstract: The liquid droplet spray device (1) comprises a housing formed of a superposition of a first and a second substrate (5, 6) and a space (2) within the housing for containing a liquid substance (3), vibrating means (8) for applying a frequency vibration to the substance (3) thereby generating the liquid droplet spray, and outlet means (7, 9, 10) for ejecting the liquid droplet spray. The outlet means comprise a cavity (7), output nozzles (9) and output channels (10) connecting the cavity (7) to the outlet nozzles (9). According to the invention, the vibrating means (8) creates a standing wave pattern within the liquid substance (3), and the outlet means are arranged such that said outlet nozzles (9) are superposed on the vibration mode peaks of the standing wave pattern. Advantageously, the first and second substrates have similar geometrical shapes. Minimal retention and optimal flow of the substance are obtained.

Classifications:
International (IPC 8-9): A61M A61M15/00 B05B B05B17/00 B05B17/06 (Advanced/Invention);
A61M15/00 B05B17/00 B05B17/04 (Core/Invention);
B05B (Subclass/Invention);
A61M (Subclass/Non-invention)
International (IPC 1-7): A61M15/00 B05B17/04 B05B17/06
CPC: B05B12/085 A61M11/001 B05B17/0638 A61M15/0085

A61M15/025
European: A61M15/00F B05B17/06B5 L05B12/08T
US: 128/200.14 128/200.16 239/102.2 239/4



Family:

Publication number	Publication date	Application number	Application date
AT344108 E	20061115	AT19990122535T	19991112
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DE69933840 D1	20061214	DE19996033840	19991112
DE69933840 D1	20061214	DE19996033840T	19991112
DE69933840 T2	20070906	DE19996033840T	19991112
DK1005917 T3	20070305	DK19990122535T	19991112
EP1005916 A1	20000607	EP19980122751	19981201
EP1005917 A1	20000607	EP19990122535	19991112
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ES2149748 T3	20070616	ES19990122535T	19991112
HK1028365 A1	20061229	HK20000107586	20001127
HK1028365 B	20061229	HK20000107586	20001127
PT1005917 T	20070228	PT19990122535T	19991112
US6405934 BA	20020618	US19990442270	19991117

Priority:
EP19980122751 19981201 EP19990107553 19990415 EP19990122535 19991112

Probable Assignee: APTAR FRANCE SAS

Assignee(s): (std): MICROFLOW ENG SA

Assignee(s): MICROFLOW ENGINEERING JAQUET DROZ SA ; MICROFLOW ENGINEERING SA ; MICROFLOW ENGINEERING S A ; MICROFLOW ENGINEERING S A NEUENBURG NEUCHATEL ; APTAR FRANCE SAS ; EP SYSTEMS SA

Inventor(s): (std): HEIJ BAS DE ; ROOIJ NICOLAAS FRANS DE ; DE HEIJ BAS ; DE ROOIJ NICOLAAS FRANS ; BARRAUD CEDRIC ; ORTEGA ISABEL ; WEBER RAPHAEL ; BO HU ; HESS JOSEPH

Inventor(s): BAS DE HEIJ ; NICOLAAS FRANS DE ROOIJ ; CEDRIC BARRAUD ; ISABEL ORTEGA ; RAPHAEL WEBER ; HU BO ; JOSEPH HESS

Agent(s): NTD PATENT AND TRADE MARK AGENCY LTD

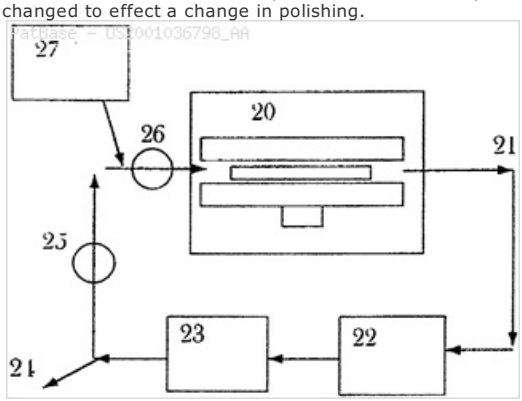
Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

276) Family number: 28826961 (US2001036798A)

Title: METHODS FOR CHEMICAL-MECHANICAL POLISHING OF SEMICONDUCTOR WAFERS

Abstract: Method for polishing the surface of a semiconductor wafer is provided in which the polishing pad has on its surface a multiplicity of abrasive particles which contact the wafer surface in combination with a reactive liquid solution essentially free of abrasive particles wherein the ionic strength of the solution is changed to effect a change in polishing.

Classifications:
International (IPC 8-9): B05D5/00 B05D7/02 B24B1/00 B24B37/00 B24B37/04 B24B37/26 B24B41/047 B24B53/00 B24B53/007 B24B53/017 B24B57/02 B24B7/20 B24D13/10 B24D13/14 B24D3/28 B24D3/32 B24D3/34 B24D99/00 B29C70/58 B29C70/66 C08J5/14 E05B19/14 H01L21/304 H01L21/306 H01L21/3105 (Advanced/Invention); B05D5/00 B05D7/02 B24B1/00 G11B23/00 (Advanced/Non-invention); B24B37/04 B24B41/00 B24B7/20 B24D13/00 B24D3/20 E05B19/00 (Core/Invention)
International (IPC 1-7): B05D1/12 B05D3/10 B05D3/12 B05D5/00 B05D7/02 B24B1/00 B24B37/00 B24B37/02 B24B37/04 B24B7/00 B24B7/19 B24B7/20 B24B7/22 B24D11/00 B24D11/02 B24D17/00 B24D3/20 B24D3/28 B24D3/32 B24D3/34 B29C71/02 B32B3/00 B32B3/20 B32B3/30 C08J3/00 C08J5/14 C08L75/04 C09K3/14 C23F1/02 H01L21/00 H01L21/302 H01L21/304 H01L21/461 H01L21/463 H01L29/34
CPC: B24D13/10 H01L21/02024 H01L21/30604 H01L21/31053 Y10S438/959 Y10S977/888 Y10S977/932 B24B37/04 B24B41/047 B24B57/02 B24D3/34 G11B23/0021 H01L21/30625 B29C70/66 B24B37/26 B24B53/00 B24B53/017 B24D3/28 B29C70/58 B29L2031/736 Y10T428/24355 Y10T428/24372 Y10T428/24405 Y10T428/24446 Y10T428/24479 Y10T428/24537 Y10T428/2457 Y10T428/24579 Y10T428/25 Y10T428/254 Y10T428/26 Y10T428/268 Y10T428/2982 Y10T428/31551 Y10T428/31591 Y10T428/249975 Y10T428/249986 B24B37/24 B24D3/32 C08K3/36 C08L75/04 Y10T428/249924 Y10T428/249954 Y10T428/249972 C08K3/013 B24B37/245
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US: 156/345 156/345.11 156/345.12 156/345.120P 156/345.120S 216/38 216/88 216/89 216/93 257/E21.219 257/E21.219S 257/E21.23 257/E21.230S 257/E21.244 257/E21.244S 264/236 264/236S 428/141 428/143 428/147 428/152 428/156 428/163 428/167 428/168 428/220 428/292.1 428/292.100P 428/305.5 428/313.5 428/314.2 428/317.9 428/323 428/327 428/332 428/338 428/402 428/408.8 428/423.1 428/425.1 428/908.8 437/225 437/228 437/946 437/974 438/592 438/593 438/69 438/690 438/690S 438/691 438/692 438/692P 438/693 438/745 438/959 451/28 451/36 451/37 451/41 451/41P 451/527 451/527P 451/530 451/533 451/548 451/550 451/56 451/57 451/58 451/59 451/72 51/294 51/295 51/296 51/298 51/302 51/303 51/307 51/308 51/398 977/888 977/932



Family:

Publication number	Publication date	Application number	Application date
AU199347984 A1	19940315	AU19930047984	19930802
CN1059219 C	20001206	CN19931007339	19930615
CN1082567 A	19940223	CN19931007339	19930615
CN1277572 A	20001220	CN19988010545	19981105
DE69319435 D1	19980806	DE19936019435	19930802
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DE69332490 T2	20030925	DE19936032490T	19930802
EP0656031 A1	19950607	EP19930918581	19930802
EP0656031 A4	19950726	EP19930918581	19930802
EP0656031 B1	19980701	EP19930918581	19930802
EP0829328 A2	19980318	EP19970120317	19930802
EP0829328 A3	19981209	EP19970120317	19930802
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EP1035945 A1	20000920	EP19980957602	19981105
EP1035945 A4	20021120	EP19980957602	19981105
JP2001522729 T2	20011120	JP20000520271T	19981105
JP2008238399 A2	20081009	JP20080130985	20080519
JP3013105 B2	20000228	JP19940506309T	19930802
JP8500622 T2	19960123	JP19940506309T	19930802
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SG43335 A1	19971017	SG19960008436	19930802
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US2003068960 AA	20030410	US20020292770	20021112
US2004224142 AA	20041111	US20040850083	20040519
US2005221741 AA	20051006	US20050139060	20050527
US5578362 A	19961126	US19940274134	19940712
US5900164 A	19990504	US19970954979	19971020
US5932486 A	19990803	US19970912144	19970815
US6022264 A	20000208	US19980021437	19980210
US6030899 A	20000229	US19990363540	19990729
US6069080 A	20000530	US19980138628	19980824
US6099394 A	20000808	US19980049864	19980327
US6099954 A	20000808	US19990327795	19990608
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US6488570 BA	20021203	US20000665840	20000920
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US6899611 BB	20050531	US20020292770	20021112
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WO9404599 A1	19940303	WO1993US07256	19930802
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Priority:

US19920932161 19920819
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Probable Assignee: ROHM AND HAAS ELECTRONIC MATERIALS CMP HOLDINGS INC

Assignee(s): (std): JENSEN ELMER W ; ROBERTS JOHN V H ; REINHARDT HEINZ F ; RODEL HOLDINGS INC ; MELBOURNE LEE ; MCCLAIN HARRY G ; BUDINGER WILLIAM D ; RODEL INC ; ROHM AND HAAS ELECTRONIC MATER ; ROHM AND HAAS ELECT MATERIALS

Assignee(s): RODEL INC NEWARK DEL US ; ROHM AND HAAS ELECTRONIC MATERIALS CMP HOLDINGS INC ; ROHM AND HAAS ELECTRONIC MATERIALS CMP ; ROHM AND HAAS ELECTRONIC MATERIALS CMP HOLDINGS IN ; BUDINGER WILLIAM B ; CHECHIK NINA G ; COOK LEE MELBOURNE ; JAMES DAVID B ; NATIONAL DATACOMM CORP ; LEVERING RICHARD M ; OLIVER MICHAEL R ; MCCLAIN HARRY GEORGE ; JENSEN ELMER WILLIAM ; LUODAI ER CORP

Inventor(s): (std): MCCLAIN HARRY GEORGE ; JENSEN ELMER WILLIAM ; MCCLAIN HARRY G ; JENSEN ELMER W ; LEVERING RICHARD M JR ; JAMES DAVID B ; BUDINGER WILLIAM D ; ROBERTS JOHN V H ; OLIVER MICHAEL R ; CHECHIK NINA G ; LEVERING JR RICHARD M ; REINHARDT HEINZ F ; REINHARD H F ;

ROBERTS J V H ; MCCLAIN H G ; JENSEN ERUMIIRU UIRIAMU ; BUDINGER WILIAM D ; JAMES D B ; BUDINGER W D ; D B JAMES ; CHECHIK NINA G AND ; H F REINHARD ; JOHN VH ROBERTS ; J V H ROBERTS ; H G MCCLAIN ; HARRY GEORGE MCCLAIN ; W D BUDINGER ; HEINZ F REINHARDT ; MCCLAIN HARRY ; JENSEN ELMER ; BUDINGER WILLIAM ; REINHARDT HEINZ ; ROBERTS JOHN ; BUDINGER WILLIAM B ; COOK LEE MELBOURNE ; LEVERING RICHARD M ; MACLAINE HARRY GEORGE ; BADINGER WILLIAM D ; JENSEN ELMIEL WILLIAM ; MELBOURNE LEE ; URBANAVAGE WALTER J

Inventor(s): JENSEN ELMER WILLIAM NEW CASTLE DE 19720 US ; MCCLAIN HARRY GEORGE MIDDLETOWN DE 19709 US ; JOHN V H ROBERTS ; ROBERTS JOHN V ; ROBERTS JOHN VH

Agent(s): ROHM AND HAAS ELECTRONIC MATERIALS CMP HOLDINGS INC; OH EDWIN; KITA GERALD K; EDWIN; GERALD K

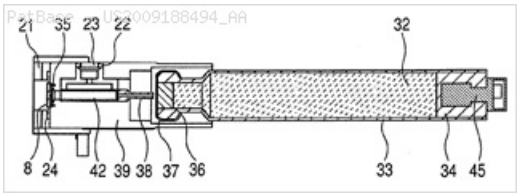
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277) Family number: 43552963 (US2009188494A)

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Title: DRUG EJECTION APPARATUS, ESTIMATION OF EJECTION PERFORMANCE THEREOF, AND METHOD OF DRUG EJECTION

Abstract: A drug ejection apparatus comprises a drug ejection assembly having an ejection port and an element for generating energy for ejecting a drug through the ejection port, a drug container connected with the drug ejection assembly for holding the drug, a pressure sensor unit for sensing a pressure change in the inside of the drug container in correspondence with ejection of the drug through the drug ejection assembly, and a drive control unit for deciding driving conditions of the element for ejecting a prescribed amount of the drug by reference to an output level of the pressure sensor unit on driving the element under prescribed conditions.



Classifications:
International (IPC 8-9): A61M11/00 A61M11/08 A61M15/00 A61M15/02 A61M16/00 A61M31/00 A62B7/00 A62B9/00 B05B11/00 B05B11/02 B05B17/06 B05C11/10 B05C5/00 B05D1/26 B05D3/00 B05D7/00 B65D83/14 B65D83/44 (Advanced/Invention); A61M11/00 A61M11/06 A61M15/00 A61M16/00 B05B11/00 B05C11/10 B05C5/00 B05D1/26 B05D3/00 B05D7/00 B65D83/14 (Core/Invention)
International (IPC 1-7): A61M11/00
CPC: A61M11/007 A61M11/042 A61M15/0068 A61M2016/0021 A61M2016/0027 A61M2205/3306 A61M2205/3375 A61M2205/3389 A61M2205/502 A61M2205/583 A61M11/005 B05B11/02 B05B17/0607 A61M15/0085 A61M2016/0024 A61M11/001 A61M15/025 A61M15/008
European: A61M15/00F A61M15/02 B05B11/02 B05B17/06B K61M11/00A K61M11/00F K61M11/00M2 K61M11/04H2 K61M15/00D4 K61M15/02A K61M16/00A10 K61M16/00A8B2 K61M16/00A8B4 K61M205/33D K61M205/33U K61M205/33V3 K61M205/50A K61M205/58D
US: 128/200.14 128/200.22 128/200.23 128/200.24 128/202.22 128/203.12 128/203.120P 128/203.120S 128/203.14 128/203.140P 128/203.15 128/205.23

Family:

Publication number	Publication date	Application number	Application date
AU2009206947 AA	20090730	AU20090206947	20090123
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CN104288878 A	20150121	CN201410602146	20090123
DE602009011888 D1	20130207	DE200960011888T	20090123
EP2237823 A1	20101013	EP20090703630	20090123
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EP2237824 A1	20101013	EP20090703832	20090120
IN04547CN2010 A	20110128	IN2010CN04547	20100720
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JP5383097 B2	20140108	JP20080157987	20080617
JP5602360 B2	20141008	JP20080298167	20081121
US2009188494 AA	20090730	US20090356343	20090120
US2010275916 AA	20101104	US20090532867	20090123
US2010282254 AA	20101111	US20090742832	20090120
US8286628 BB	20121016	US20090356343	20090120
US8333188 BB	20121218	US20090532867	20090123
US8607783 BB	20131217	US20090742832	20090120
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Priority:

JP20080014458 20080125
JP20080103554 20080411
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WO2009JP51515 20090123

Probable Assignee: CANON INC

Assignee(s): (std)**:** CANON KK ; IMAI MITSURU ; TAKEI MASAHIRO ; MASADA YOHEI ; KAWAHARA KEISUKE ; MACHIDA MINORU ; TSUCHIYA SATOSHI

Assignee(s): CANON INC ; CANON KABUSHIKI KAISHA

Inventor(s): (std)**:** YOHEI MASADA ; KEISUKE KAWAHARA ; MASAHIRO TAKEI ; SATOSHI TSUCHIYA ; MITSURU IMAI ; MINORU MACHIDA ; MACHIDA MINORU ; TSUCHIYA SATOSHI ; KAWAHARA KEISUKE ; MASADA YOHEI ; IMAI MITSURU ; TAKEI MASAHIRO

Agent(s): SPRUSON AND FERGUSON; TBK; TBK PATENT; FITZPATRICK CELLA HARPER AND SCINTO; OKABE MASAO ET AL

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

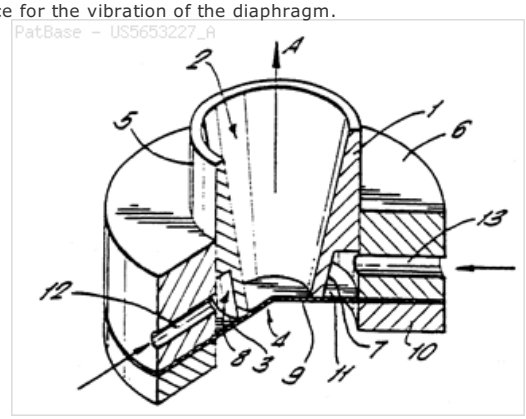
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278) Family number: 20327964 (US5653227A)

Title: ATOMIZING DISPENSER

Abstract: PCT No. PCT/GB94/01357 Sec. 371 Date Dec. 26, 1995 Sec. 102(e) Date Dec. 26, 1995 PCT Filed Jun. 23, 1994 PCT Pub. No. WO95/00254 PCT Pub. Date Jan. 5, 1995A gas supply (30) supplies pressurized gas to a nozzle (1) such that a flow of gas is discharged through an aperture (77) defined between a lip (3) of the nozzle and a vibrating diaphragm (9). A liquid dispenser (42) introduces a metered quantity of liquid into the gas flow such that the liquid droplets are atomized by the vibrating diaphragm. The diaphragm is held under tension so that it is vibrated by the gas flow. The supply of gas may be a manually operated displacement or diaphragm pump or may be a pressurized gas container. Metered doses may be dispensed for oral inhalation without providing external energy source for the vibration of the diaphragm.

Classifications:
International (IPC 8-9): A61M15/00 B05B17/06 (Advanced/Invention); A61M15/00 B05B17/04 (Core/Invention)
International (IPC 1-7): A61M11/02 A61M15/00 B05B1/02 B05B17/06
CPC: A61M15/0005 A61M15/0065 B05B17/0692
European: A61M15/00D B05B17/06C K61M15/00A8
US: 128/200.16 128/203.12 128/203.15



Family:

Publication number	Publication date	Application number	Application date
DE69408985 D1	19980416	DE19946008985	19940623
DE69408985 T2	19980702	DE19946008985T	19940623
EP0705146 A1	19960410	EP19940918477	19940623
EP0705146 B1	19980311	EP19940918477	19940623
GB2279273 A1	19950104	GB19940012620	19940623
GB2279273 B2	19970806	GB19940012620	19940623
GB9312984 A0	19930804	GB19930012984	19930623
GB9412620 A0	19940810	GB19940012620	19940623
US5653227 A	19970805	US19950571831	19951226
WO9500254 A1	19950105	WO1994GB01357	19940623

Priority:
GB19930012984 19930623 WO1994GB01357 19940623

Probable Assignee: CONSORT MEDICAL PLC

Assignee(s): (std): BARNES PAUL ; BESPAK PLC ; FRY ANDREW ROBERT ; MARSH JOHN DAVID

Assignee(s): BESPAK PLC INDUSTRIAL ESTATE KING S LYNN BERGEN WA ; TEAM CONSULTING LTD ; BESPAK PLC KING S LYNN NORFOLK GB ; CONSORT MEDICAL PLC ; BESPAK PLC INDSUSTRIAL ESTATE KING S LYNN ; BESPAK PLC INDSUSTRIAL ESTATE KING S LYNN BERGEN W ; BESPAK PLC INDUSTRIAL ESTATE KING S LYNN

Inventor(s): (std): FRY ANDREW ROBERT ; MARSH JOHN DAVID ; BARNES PAUL ; MARSH JOHN DAVID NORTH END

Inventor(s): ANDREW ROBERT FRY ; JOHN DAVID MARSH ; PAUL BARNES ; FRY ANDREW ROBERT 13 GREENHILL PARK HERTFORDSHIRE EN5 1HQ GB ; MARSH JOHN DAVID 71 NORTH END ROYSTON HERTFORDSHIRE SG8 5NZ GB ; FRY ANDREW ROBERT 13 GREENHILL PARK HERTFORDSHIRE ; BARNES PAUL KING S LYNN NORFOLK PE32 1RL GB ; MARSH JOHN DAVID 71 NORTH END ROYSTON HERTFORDSHIR

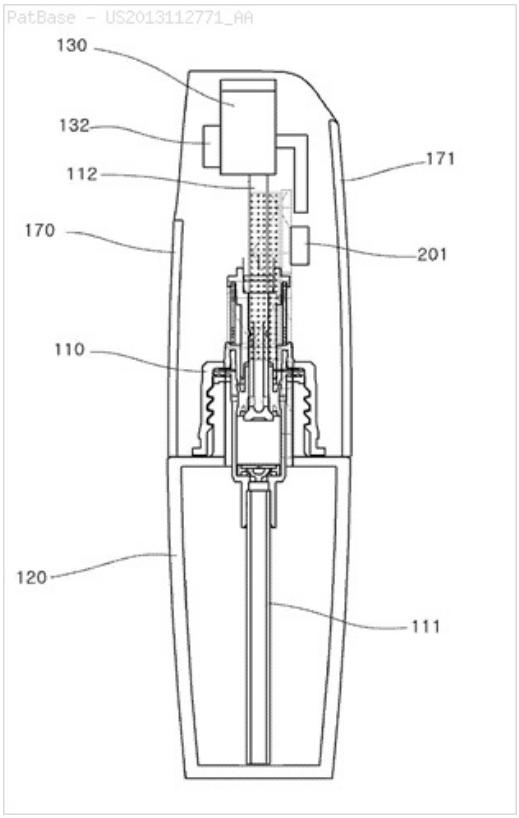
Designated states: AT BE CA CH DE DK ES FR GB GR IE IT JP KR LU MC NL PT SE US

279) Family number: 50554965 (US2013112771A)

Title: PORTABLE ELECTRIC MIST SUPPLY APPARATUS FOR LIQUID COSMETICS

Abstract: A portable electric mist supply apparatus for liquid cosmetics is disclosed. Liquid cosmetics such as cosmetic water or the like are stored in a storing container which is detachably engaged, and the stored liquid cosmetics is discharged by a certain amount when in use, in a form of mist particles with the aid of a ultrasonic vibrator.

Classifications:
International (IPC 8-9): A45D34/02 A45D34/04 B05B11/00 B05B17/00 B05B17/06 (Advanced/Invention); A45D34/00 B05B11/00 (Advanced/Non-invention)
CPC: A45D34/02 A45D34/04 A45D2034/007 A45D2200/056 A45D2200/057 A45D2200/207 B05B11/3001 B05B17/0646 B05B17/0607
European: A45D34/04 B05B11/30C B05B17/06B5F K45D200/05H4 K45D200/05H6 K45D200/20F K45D34/00D
US: 239/102.1 239/102.2 239/329



Family:

Publication number	Publication date	Application number	Application date
CN102711552 A	20121003	CN201180003282	20110726
EP2462833 A2	20120613	EP20110812754	20110726
EP2462833 A4	20130612	EP20110812754	20110726
JP2013533051 T2	20130822	JP20130521708T	20110726
KR101278532 B1	20130625	KR20110073990	20110726
KR20120010977 A	20120206	KR20110073990	20110726
US2013112771 AA	20130509	US20110255492	20110726
US8925833 BB	20150106	US20110255492	20110726
WO12015225 A2	20120202	WO2011KR05508	20110726
WO12015225 A3	20120510	WO2011KR05508	20110726

Priority:

KR20100071860 20100726 KR20110073990 20110726 WO2011KR05508 20110726

Probable Assignee: YONWOO CO LTD

Assignee(s): (std)**:** KI JOONG HYUN ; KIM SUNG SIN ; SON SU JIN ; YONWOO CO LTD ; YONWOO INC

Assignee(s): YONWOO CO

Inventor(s): (std)**:** KIM SUNG SIN ; SON SU JIN ; KI JOONG HYUN ; SUNG SIN KIM ; SU JIN SON ; JOONG HYUN KI

Agent(s): PATENTANWALTSKANZLEI WILHELM AND BECK; YOO BYUNG OAK

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 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

280) Family number: 34890967 (US2007167971A)

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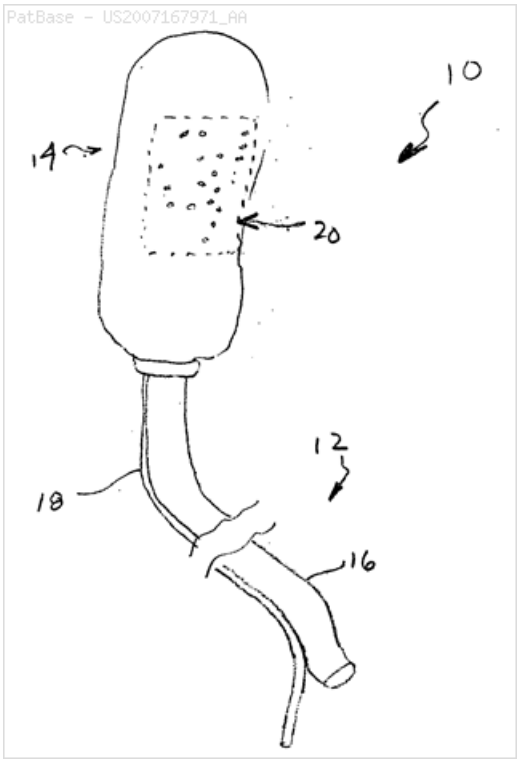
Title: DEVICES AND METHODS FOR PROMOTING THE FORMATION OF BLOOD CLOTS IN ESOPHAGEAL VARICES

Abstract: A device for promoting the clotting of blood in body cavities includes a flexible body portion; an expandable member located on the flexible body portion; and a blood clotting material attached to the expandable member. When used, insertion of at least a portion of the blood clotting material into the body cavity causes at least a portion of the blood clotting material to contact blood emanating from a bleed site. Methods of providing therapies to tube-shaped organs include the steps of providing suitable devices having expansion capabilities, positioning the devices at the appropriate bleed sites, and expanding the devices to cause blood clotting materials to contact the bleed sites. Materials that may be used as the blood clotting material include zeolites, molecular sieve materials, diatomaceous earth, clay, silica-based materials, oxidized cellulose, carboxymethyl cellulose, bioactive glass, biological hemostats, chitosan, and combinations of the foregoing.

Classifications:

International (IPC 8-9): A61B17/03 A61F A61F13/00 A61F13/02 A61F13/37 A61F13/534 A61F15/00 A61K33/06 A61K33/34 A61K33/38 A61K9/14 A61K9/70 A61L A61L15/14 A61L15/16 A61L15/18 A61L15/22 A61L15/28 A61L15/42 A61L15/44 A61L15/46 A61L15/54 A61L15/58 A61M29/00 A61M35/00 A61P17/02 A61P29/00 A61P31/00 A61P31/04 A61P31/10 A61P7/04 B05D7/24 C08L1/04 (Advanced/Invention);
A61F13/00 A61F13/02 A61F15/00 A61K33/06 A61K33/34 A61K33/38 A61K9/14 A61K9/70 A61L15/00 A61L15/16 A61M29/00 A61M35/00 A61P17/00 A61P7/00 C08L1/00 (Core/Invention);
A61F A61L (Subclass/Invention)

International (IPC 1-7): A61F13/00 A61L15/18 A61L15/22 A61L15/42 A61L15/44
CPC: A61L15/28 A61L2300/412 A61L2300/428 A61L2300/43 A61F2013/00472 A61F2013/00548 A61F2013/00744 A61L2300/802 A61F13/00034 A61F13/00038 A61F13/00991 A61F13/36 A61F2013/00119 A61F2013/0091 A61F2013/00931 A61F2013/00936 A61L15/20 A61L2300/104 A61L2300/45 A61M25/0074 A61M25/0082 A61M25/10 A61M25/1011 A61M25/1027 A61M2025/0057 A61M2025/105 A61M2025/1088 A61L15/425 A61F13/00063 A61L2300/406 A61L2400/16 A61F13/00012 A61L15/42 A61L15/18 A61L15/44 A61L2300/102 A61L2300/402 A61L2300/404 A61L2300/41 A61L2300/418 A61L2400/04 A61F13/534
European: A61F13/00A6 A61F13/00A6B A61F13/00B6 A61F13/00M2 A61F13/36 A61L15/18 A61L15/20 A61L15/28 A61L15/42E A61L15/44 A61M25/10 A61M25/10G K61F13/00J4 K61F13/00L12B K61F13/00L12E1 K61F13/00L12F K61F13/00L1H2 K61F13/00L2C K61F13/00L5A6 K61L300/102 K61L300/104 K61L300/402 K61L300/404 K61L300/410 K61L300/412 K61L300/418 K61L300/428 K61L300/430 K61L300/450 K61L300/802 K61L400/04 K61M25/00S5 K61M25/00T20 K61M25/00T40 K61M25/10D K61M25/10Z20 K61M25/10Z3
US: 1/1 424/443 424/443P 424/444 424/445 424/445S 424/446 424/446P 424/447 424/489 424/489P 424/618 424/618S 424/630 424/630S 424/638 424/638S 424/684 424/684S 427/2.3 502/80 602/41 602/42 602/42P 602/43 602/43S 602/44 602/44P 602/45 602/45S 602/46 602/47 602/48 602/48P 602/48S 602/49 602/52 602/53 602/53S 602/54 602/54S 602/56 602/56S 602/57 602/58 602/80 604/289 604/289P 604/367 604/372 604/374 604/375 604/377 606/191 606/191P 606/213



Family:

Publication number	Publication date	Application number	Application date
AT487451 E	20101115	AT20070836179T	20070720
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BRPI0808543 A8	20190115	BR2008PI08543	20080306
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Priority:

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Probable Assignee: Z MEDICA LLC

Assignee(s): (std)**:** BURNS DANIEL ; BURNS DANIEL J ; HORN JEFFREY L ; LO DENNY ; HUEY RAYMOND ; Z MEDICA CORP ; MEDICA CORP Z ; HUEY RAYMOND J ; HURSEY FRANCIS X ; ZET MEDIKA KORPOREHJSHN ; Z MEDICA LLC ; MEDICA LLC Z ; BASADONNA GIACOMO

Assignee(s): BASADONNA GLACOMO ; ABACUS FINANCE GROUP LLC ; ABACUS FINANCE GROUP LLC AGENT AS ; MADISON CAPITAL FUNDING LLC AGENT AS ; Z MEDICA LLC WILMINGTON ; TWIN BROOK CAPITAL PARTNERS LLC AGENT AS

Inventor(s): (std)**:** HORN JEFFREY L ; LO DENNY ; HURSEY X FRANCIS ; BASADONNA GLACOMO ; KHESI FREHNSIS K ; BERNS DEHNIEL D ; BASADONNA DZHIAKOMO ; KH JU RAJMOND ; LO DEHNNI ; DANIEL J BURNS ; BURNS DANIEL J ; BURNS DANIEL ; HUEY RAYMOND J ; HUEY RAYMOND ; BUMS DANIEL J ; LO DENNY D ; HURSEY FRANCIS X ; BASADONNA GIACOMO ; DENNY LO ; RAYMOND HUEY

Inventor(s): NA ; HORN JEFFREY ; HUEY RAYMOND R ; BURNS DANIEL J D J ; FRANCIS X HURSEY ; GIACOMO BASADONNA ; HURSEY FRANCIS XAVIER ; BURNS DANIEL JOSEPH ; BASADONNA GIACOMO HADDAM ; HUEY RAYMOND ORANGE ; BURNS DANIEL J STRATFORD ; LO DENNY BETHLEHEM ; HURSEY FRANCIS X WEST HARTFORD ; KH'JU RAJMOND

Agent(s): SIM AND MCBURNEY; ANWALTSKANZLEI MEISSNER AND MEISSNER; LLOYD PATRICK ALEXANDER DESMOND; TRAIN MATTHEW; BATES PHILIP IAN; SHUN SHUN CHAN; LI WING HONG; MICHAUD-DUFFY GROUP LLP; MICHAUD DUFFY GROUP LLP; KNOBBE MARTENS OLSON AND BEAR LLP; MICHAUD RICHARD R

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

281) Family number: 57554969 (CO7020088U) © PatBase

Title: DISPOSITIVO ELECTRONICO INTELIGENTE PROGRAMABLE Y AUTONOMO DISPENSADOR DE FRAGANCIAS Y OTRAS ESENCIAS INTELLIGENT PROGRAMMABLE ELECTRONIC DEVICE AND FRAGRANCE DISPENSER SELF AND OTHER ESSENTIALS (Machine translation)

Abstract: Source: CO7020088U [ES] [Source: Claim 1] 1. Un dispositivo dispensador de una o mas fragancias, caracterizado porque comprende los siguientes elementos: -Una tapa superior (1); -Una base de contenedor de las capsulas de los fluidos (2); -capsulas o contenedores (7); -un sistema de calentamiento (resistencias) para evaporacion (12), -Un contenedor del hardware y circuitos (3) que contiene los elementos (8, 9, 10, y 11), -Un contenedor (4) que aloja el panel solar (13) y el conector USB (5), -Un sistema de desplazamiento de la USB (16), en donde el contenedor de la USB (5), contiene conectores a computador o a dispositivo electronico con USB (15); -Un pin de desplazamiento (17); -habitaculos (6) para cada capsula o contenedor de fluido con fragancias (7); -Una Red de neuronas (8); -un sistema de control de la tarjeta (9) que es un micro procesador de control; -sistema de actuadores (evaporacion y ultrasonico) (10), Un sistema de sensores para control de variables como temperatura y cantidad de fluido en las capsulas de fluido o fragancia (7), Un sistema de suministro de energia que se basa en una bateria y sistema de recarga de la misma (11); - un pin 17 de desplazamiento del sistema USB y un interruptor (18) de encendido/apagado de la tarjeta dispensadora alojado en la tapa superior (1).

Machine translation: [Source: Claim 1] 1. A dispenser device one or more fragrances, comprising the following elements: -An upper lid (1); -a Container base fluids capsules (2); -capsulas or container (7); -a heating system (resistance) to evaporation (12) -A hardware and circuit container (3) containing the elements (8, 9, 10, and 11) -A container (4) housing the solar panel (13) and the USB connector (5), moving system -A USB (16), wherein the USB container (5) contains connectors for computer or electronic device with USB (15); -a Displacement pin (17); -habitaculos (6) for each capsule or fragrances fluid container (7); -a Network of neurons (8); -a system control card (9) is a micro processor control; -system of actuators (evaporation and ultrasonic) (10) A system of sensors to control variables such as temperature and amount of fluid in the fluid or fragrance capsules (7), a power supply system which is based on a battery and charging system thereof (11); - 17 pin USB shift system and a switch (18) on / off of the card dispenser housed on the top cover (1).

Classifications:
International (IPC 8-9): B05B7/00 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
CO7020088 U1	20140811	CO20140026313U	20140207

Priority:

CO20140026313U 20140207

Probable Assignee: UNIV MILITAR NUEVA GRANADA

Assignee(s): (std)**:** UNIV MILITAR NUEVA GRANADA

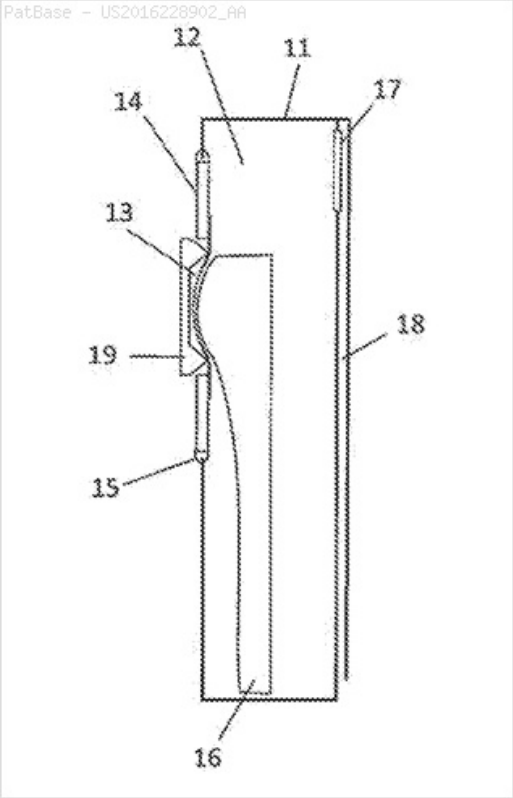
Assignee(s): UNIVERSIDAD MILITAR NUEVA GRANADA

Inventor(s): (std)**:** COGOLLO RINCON JOSE GUILLERMO ; LAGOS SANDOVAL JOSE ARTURO

282) Family number: 55201975 (US2016228902A) © PatBase

Title: FLUID MANAGEMENT FOR VIBRATING PERFORATE MEMBRANE SPRAY SYSTEMS

Abstract: A droplet generation device comprising a reservoir split into at least two regions by a substantially liquid impermeable barrier, a perforate membrane connecting one of said regions, containing, in use, the liquid to be dispensed, to the atmosphere, such that vibration of the membrane causes the liquid to be ejected through the perforate membrane into the atmosphere, and a pressure control system consisting of one or more valves in which at least one valve vents gas into the reservoir in response to a pressure difference, DELTAPin, across it that is less than zero, and at least one valve is connected to a non-liquid-containing region of the reservoir and vents gas out of the reservoir in response to a pressure difference, DELTAPout, across it that is greater than DELTAPin, where DELTAPin and DELTAPout are the absolute pressure of the gas in the reservoir minus the absolute atmospheric pressure outside of the reservoir.
Classifications:
International (IPC 8-9): B05B11/00 B05B17/00 B05B17/06 (Advanced/Invention)
CPC: A61M11/005 A61M35/00 A61L9/00 B05B11/00412 B05B11/00442 B05B11/0054 B05B17/0638 B05B17/0646 B05B17/0684 B05B11/0039
US: 1/1 239/102.1



Family:

Publication number	Publication date	Application number	Application date
EP3043926 A1	20160720	EP20140777113	20140912
GB201316314 A0	20131030	GB20130016314	20130913
US2016228902 AA	20160811	US20140021436	20140912
WO15036764 A1	20150319	WO2014GB52758	20140912

Priority:

GB20130016314 20130913 WO2014GB52758 20140912

Probable Assignee: TECHNOLOGY PARTNERSHIP PLC

Assignee(s): (std)**:** TECH PARTNERSHIP PLC ; TECHNOLOGY PARTNERSHIP ; TECHNOLOGY PARTNERSHIP PLC

Inventor(s): (std)**:** CRICHTON DANIEL

Agent(s): GILL JENNINGS AND EVERY LLP

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

283) Family number: 61598978 (US2018297053A)

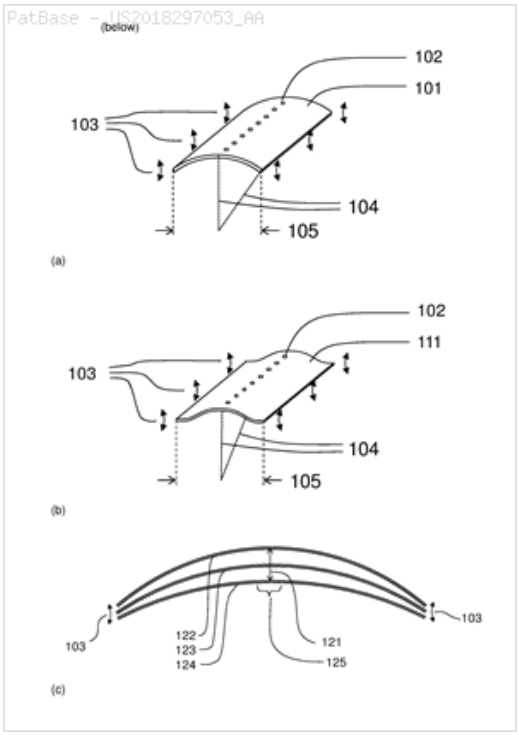
© PatBase

Title: LINEAR DROPLET GENERATING DEVICE

Abstract: A nozzle plate (**201**) for use in a liquid droplet production apparatus and such apparatus, the nozzle plate comprising a flexible substrate having a linear array of nozzles that extend through said plate, said nozzles being arranged in at least one line, forming thereby a nozzle-bearing region, wherein the substrate is curved so as to impart an increased longitudinal stiffness to it. The apparatus comprises a piezo actuator (**202, 203**), which may have slots (**211**) separating fingers acting on the nozzle plate (**201**). The nozzle plate may be separable form the actuator.

Classifications:

International (IPC 8-9): B05B17/00 B05B17/06
B06B1/06 (Advanced/Invention);
B06B1/06 (Advanced/Non-invention)
CPC: A61M11/005 B05B17/0607 B05B17/0638 B05B17/0646 B05B17/0661 B05B17/0669 B05B17/0676 B06B1/06 B06B2201/77 G10K11/36
US: 1/1 239/102.2



Family:

Publication number	Publication date	Application number	Application date
EP3362187 A1	20180822	EP20160785552	20161006
GB201518337 A0	20151202	GB20150018337	20151016
US2018297053 AA	20181018	US20160768377	20161006
WO17064473 A1	20170420	WO2016GB53105	20161006

Priority:

GB20150018337 20151016 WO2016GB53105 20161006

Probable Assignee: TECHNOLOGY PARTNERSHIP PLC

Assignee(s): (std)**:** TECH PARTNERSHIP PLC ; TECHNOLOGY PARTNERSHIP ; TECHNOLOGY PARTNERSHIP PLC

Assignee(s): TTP PLC

Inventor(s): (std)**:** BUCKLAND JUSTIN ; POOLEY DAVID

Agent(s): GILL JENNINGS AND EVERY LLP

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

284) Family number: 29446980 (US2003166297A)

© PatBase

Title: SURFACE ENHANCED SPECTROSCOPY-ACTIVE COMPOSITE NANOPARTICLES

Abstract: Metal nanoparticles associated with a spectroscopy-active (e.g., Raman-active) analyte and surrounded by an encapsulant are useful as sensitive optical tags detectable by surface-enhanced spectroscopy (e.g., surface-enhanced Raman spectroscopy).

Classifications:

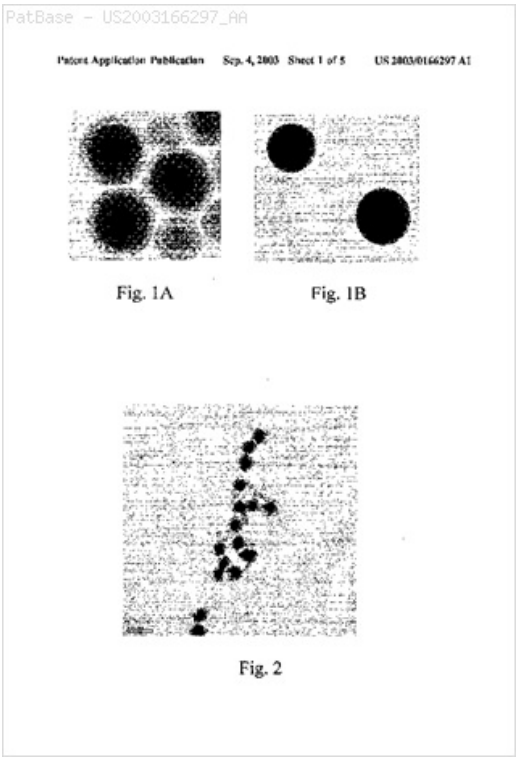
International (IPC 8-9): A61B10/00 A61B6/00 A61K49/00 A61K49/04 A61K51/00 B05D1/12 B22F1/00 B22F1/02 B22F9/04 B22F9/14 B22F9/16 B82B1/00 B82B3/00 B82Y30/00 B82Y40/00 C12Q1/68 C25D1/00 C25D1/04 C25D5/02 G01J3/44 G01N G01N1/00 G01N15/10 G01N21/63 G01N21/64 G01N21/65 G01N21/75 G01N33/00 G01N33/20 G01N33/48 G01N33/53 G01N33/532 G01N33/533 G01N33/543 G01N33/553 G01N33/58 G01N37/00 G06K9/74 (Advanced/Invention);
B22F1/02 B22F9/16 B82B1/00 B82B3/00 B82Y5/00 G01N33/532 (Advanced/Non-invention);
A61B10/00 B05D1/12 B82B1/00 B82B3/00 C25D5/00 C25D5/02 G01J3/44 G01N21/63 G01N21/64 G01N21/75 G01N33/20 G06K9/74 (Core/Invention)

International (IPC 1-7): B22F1/02 B22F9/04 G01J3/44 G01N21/00 G01N21/63 G01N21/65 G01N21/75 G01N33/532 G01N33/543 G01N33/553 G01N33/58 G01N37/00 G06K9/74

CPC: B82Y5/00 C25D1/003 B22F1/025 B22F9/14 B22F1/0025 B22F2001/0037 C25D1/006 C25D1/04 Y10T436/13 G01N33/54346 G01N33/553 B22F1/0018 B22F1/02 B22F2998/00 B82Y30/00 G01N33/543 G01N33/58 G01N2201/06113 G01N2201/068 B22F1/0022 B22F1/0044 B22F2301/255 B22F2304/056 B22F2304/054 G07D7/1205 G06K9/00577 G01J3/44 G01N21/658 G01N2201/129

European: A61K47/48W8B B22F1/00A2B4 B22F1/00A2B4F B22F1/02 B22F9/14 B82Y30/00 B82Y5/00 C25D1/00 C25D1/04 G01J3/44 G01N21/65D G01N33/543D6 G01N33/553 G06K9/00R G07D7/12C L22F1/00A2B4X L22F998/00 L82T201/01 S01N201/129

US: 1/1 205/112 205/150 205/150S 252/408.1 252/408.100P 356/301 356/301S 356/36 356/71 356/71P 422/82.05 422/82.09 427/180 427/180S 435/287.1 435/7.1 436/166 436/166P 436/166S 436/525 436/527 436/56 436/56P 436/56S 436/73 436/80 600/407 600/431 600/431P 75/332 75/332P 977/927 977/927S



Family:

Publication number	Publication date	Application number	Application date
AU200080004 A1	20010510	AU20000080004	20001006
AU200080004 A5	20010510	AU20000080004	20001006
AU2005323511 AA	20060713	AU20050323511	20050425
AU2011254092 AA	20120119	AU20110254092	20111215
BRPI0510116 A	20070925	BR2005PI10116	20050425
CA2386186 AA	20020328	CA20002386186	20001006
CA2563694 AA	20060713	CA20052563694	20050425
CA2563694 AA	20061018	CA20052563694	20050425
CA2563694 C	20140107	CA20052563694	20050425
CA2830663 AA	20060713	CA20052830663	20050425
CN101019019 A	20070815	CN200580015982	20050425
CY1118092 T1	20170628	CY20161100732T	20160726
DE60037267 D1	20080110	DE20006037267T	20001006
DE60037267 D1	20080110	DE20006037267	20001006
DE60037267 T2	20081009	DE20006037267T	20001006
DE60049321 D1	20160609	DE20006049321	20001006
DK1226422 T3	20080414	DK20000970656T	20001006
DK2295954 T3	20160815	DK20000183847T	20001006
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EP1226422 A4	20050323	EP20000970656	20001006
EP1226422 B1	20071128	EP20000970656	20001006
EP1749122 A2	20070207	EP20050856641	20050425
EP1749122 A4	20080528	EP20050856641	20050425
EP1749122 B1	20190814	EP20050856641	20050425
EP1804053 A1	20070704	EP20070007315	20001006
EP2295954 A1	20110316	EP20100183847	20001006
EP2295954 B1	20160427	EP20100183847	20001006
ES2296648 T3	20080501	ES20000970656T	20001006
ES2584553 T3	20160928	ES20100183847T	20001006
HK1106579 A1	20080314	HK20070112120	20071108
HK1106579 A3	20080314	HK20070112120	20071108
IN02880KN2006 A	20070810	IN2006KN02880	20061005
IN260326 B	20140425	IN2006KN02880	20061005
JP2003511557 T2	20030325	JP20010528673T	20001006
JP2007534944 T2	20071129	JP20070509703T	20050425
JP4786096 B2	20111005	JP20010528673T	20001006
KR101230180 B1	20130207	KR20067024549	20061122
KR20070064553 A	20070621	KR20067024549	20061122
KR20120058630 A	20120607	KR20127013107	20050425
MX300005 B	20120607	MX2006PA12282	20050425
MXPA06012282 A1	20070430	MX2006PA12282	20050425
PT1226422 T	20080304	PT20000970656T	20001006
PT2295954 T	20160803	PT20100183847T	20001006
SG10201603157U A1	20160629	SG20161003157	20050425
SG152259 A1	20090529	SG20090027442	20050425
SG152260 A1	20090529	SG20090027459	20050425
SG185328 A1	20121129	SG20120078424	20050425
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US2003166297 AA	20030904	US20030345821	20030116
US2005217424 AA	20051006	US20050132471	20050518
US2005219509 AA	20051006	US20050132974	20050518
US2005272160 AA	20051208	US20050132510	20050518
US2006038979 AA	20060223	US20050198870	20050805
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US2007165209 AA	20070719	US20070674597	20070213
US2009121193 AA	20090514	US20080245555	20081003
US2011172523 AA	20110714	US20080245538	20081003
US2015323465 AA	20151112	US20140578694	20141222
US2016077011 AA	20160317	US20150950730	20151124
US6514767 BA	20030204	US20000680782	20001006
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US7443489 BB	20081028	US20050132471	20050518
US8497131 BB	20130730	US20050113601	20050425
US8918161 BB	20141223	US20080245538	20081003
US9201013 BB	20151201	US20050132974	20050518
WO0125758 A1	20010412	WO2000US27757	20001006
WO06073439 A2	20060713	WO2005US13989	20050425
WO06073439 A3	20070412	WO2005US13989	20050425
WO06086008 A2	20060817	WO2005US28042	20050805
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Priority:

US19990157931P	19991006	US20000190395P	20000317	EP20000970656	20001006
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WO2000US27757	20001006	US20030345821	20030116	US20040565099	20040423
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AU20110254092	20111215	CA20132563694	20131031	US20140578694	20141222
US20150950730	20151124				

Probable Assignee: BECTON DICKINSON AND CO

Assignee(s): (std): FREEMAN RICHARD G ; FREEMAN R G ; CHAKAROVA GABRIELA ; DOERING WILLIAM E ; FREEMAN GRIFFITH R ; FREEMAN RICHARD GRIFFITH ; FREEMAN R GRIFFITH ; PENN STATE RES FOUND ; SURROMED INC ; NATAN MICHAEL J ; NATAN MICHAEL ; NORTON SCOTT ; PENN SHARRON G ; WALTON IAN D ; NANOPLEX TECHNOLOGIES INC ; PENN SHARRON ; WALTON IAN ; BECTON DICKINSON CO ; PENN SHARRON GAYNOR ; OXONICA INC

Assignee(s): THE PENN STATE RESEARCH FOUNDATION ; BECTON DICKINSON AND CO1 BECTON DRIVEFRANKLIN LAKESNJ07417US ; BECTON DICKINSON AND CO FRANKLIN LAKES ; ALAVITA INC ; BECTON DICKINSON AND CO ; BECTON DICKINSON AND COMPANY ; PENN STATE RESEARCH FOUNDATION ; CHAKAROVA GABRIELA S

Inventor(s): (std): PENN SHARRON ; FREEMAN GRIFFITH R ; WALTON IAN ; PENN SHARRON GAYNOR ; FREEMAN R GRIFFITH ; CHAKAROVA GABRIELA S ; NATAN MICHAEL J PENN SHARRON G ; NATAN MICHAEL ; CHAKAPORAVA GABRIELA S ; MICHAEL J NATAN ; NATAN MICHAEL J ; GRIFFITH R FREEMAN ; FREEMAN RICHARD GRIFFITH ; WALTON IAN D ; DOERING WILLIAM E ; CHAKAROVA GABRIELA ; FREEMAN R G ; PENN SHARRON G ; FREEMAN RICHARD G ; NORTON SCOTT

Inventor(s): WILLIAM E DOERING ; GABRIELA CHAKAROVA ; SHARRON PENN ; R FREEMAN GRIFFITH ; IAN WALTON ; IAN D WALTON ; MICHAEL NATAN ; GABRIELA S CHAKAPORAVA ; R GRIFFITH FREEMAN ; SHARRON GAYNOR PENN ; GABRIELA S CHAKAROVA ; DOERING WILLIAM ; NATAN MICHAEL J LOS ALTOS ; DOERING WILLIAM EUS ; FREEMAN R GRIFFITHUS ; NATAN MICHAEL JUS ; WALTON IAN DUS ; CHAKAROVA GABRIELA SUS ; PENN SHARRON GAYNORUS ; FREEMAN R ; FREEMAN RICHARD

Agent(s): FB RICE; SIM AND MCBURNEY; GOWLING LAFLEUR HENDERSON LLP; EDER MICHAEL; TEMINO IGNACIO; CLT PATENT AND TRADEMARK HK LTD; HENRY GOH S PTE LTD; SWANSON AND BRATSCHUN LLC; MARK; LERNER DAVID LITTENBERG KRUMHOLZ AND MENTLIK LLP

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

285) Family number: 30080980 (US2001011105A)

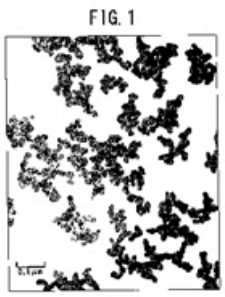
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Title: Dispersion of silica particle agglomerates and process for producing the same

Abstract: The present invention provides a dispersion of silica particle agglomerates having a sharp particle size distribution and capable of forming a porous coating film having a high transparency by drying. The present invention also provides a process for producing a colloidal dispersion of silica particle agglomerates having a specific surface area, as determined by nitrogen adsorption method, of 100 m2/g to 400 m2/g, an average secondary particle diameter of 20 nm to 300 nm and a pore volume of 0.5 ml/g to 2.0 ml/g, which comprises using a colloidal dispersion of silica particle agglomerates having a specific surface area, as determined by nitrogen adsorption method, of 300 m2/g to 1,000 m2/g and a pore volume of 0.4 ml/g to 2.0 ml/g as a seed dispersion, adding a feed solution comprising at least one of an aqueous active silicic acid solution and alkoxysilanes to the seed dispersion in small portions in the presence of an alkali to grow silica particle agglomerates.

Classifications:
International (IPC 8-9): B01J13/00 B05D5/04 C01B33/14 C01B33/141 C01B33/146 (Advanced/Invention); B01J13/00 B05D5/04 C01B33/00 (Core/Invention)
International (IPC 1-7): B01F3/12 B01J13/00 B05D5/04 B32B9/04 C01B31/141 C01B33/14 C01B33/141
CPC: C01B33/1465
European: C01B33/146B
US: 106/287.34 428/446 428/446P 516/81 516/81P 516/82 516/83

PatBase – US2001011105_AA





Family:

Publication number	Publication date	Application number	Application date
DE60130817 D1	20071122	DE20016030817T	20010117
DE60130817 D1	20071122	DE20016030817	20010117
DE60130817 T2	20080717	DE20016030817T	20010117
EP1118584 A1	20010725	EP20010300383	20010117
EP1118584 B1	20071010	EP20010300383	20010117
JP2001354408 A2	20011225	JP20000336357	20001102
JP3876610 B2	20070207	JP20000336357	20001102
US2001011105 AA	20010802	US20010764910	20010116
US2003180549 AA	20030925	US20030388574	20030314
US6569908 BB	20030527	US20010764910	20010116

Priority:

JP20000009640 20000119 JP20000112869 20000414 JP20000336357 20001102
US20010764910 20010116 US20030388574 20030314

Probable Assignee: OJI HOLDINGS CORP

Assignee(s): (std)**:** OJI PAPER CO ; TAJIRI KOZO

Assignee(s): OJI PAPER CO LTD ; NOGUCHI TETSURO ; OJI HOLDINGS CORP

Inventor(s): (std)**:** NOGUCHI TETSURO ; TAJIRI KOZO

Designated states: DE FR GB

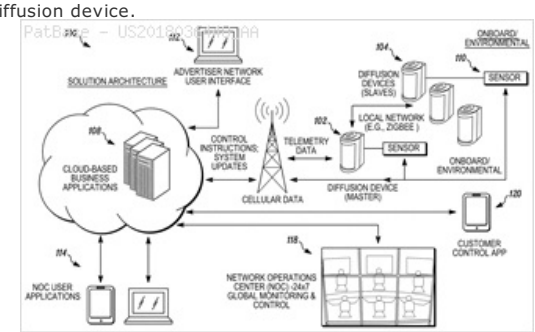
286) Family number: 68496982 (US2018036448A)

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Title: METHOD AND SYSTEM OF A NETWORKED SCENT DIFFUSION DEVICE

Abstract: Aspects of the present disclosure include a method of managing scent in an environment, which includes disposing at least one scent diffusion device within an environment, wherein the at least one scent diffusion device comprises a communications facility that enables transmitting signals to and receiving signals from a remote computer, receiving at least one target value of a scent parameter for the environment at the remote computer, and controlling, via the remote computer, diffusion of a liquid from a source of the liquid in fluid communication with the at least one scent diffusion device to achieve the target value of the scent parameter. Controlling a diffusion rate of the liquid includes altering at least one of a voltage and a duty cycle applied to at least one component of the diffusion device.

Classifications:
International (IPC 8-9)**:** A61L9/00 A61L9/04 A61L9/12 A61L9/14 B05B12/12 B05B12/14 (Advanced/Invention)
CPC: A61L9/12 A61L9/04 A61L9/122 A61L2209/111 A61L9/032 A61L9/037 A61L9/127 A61L9/14 A61L2209/133 A61L2209/16
US: 1/1 422/4



Family:

Publication number	Publication date	Application number	Application date

AU2017306411 AA	20190221	AU20170306411	20170802
CN109789232 A	20190521	CN201780059623	20170802
EP3493857 A1	20190612	EP20170837610	20170802
US2018036448 AA	20180208	US20170667570	20170802
WO18026932 A1	20180208	WO2017US45122	20170802

Priority:

US20160370610P 20160803 US20170667570 20170802 WO2017US45122 20170802

Probable Assignee: PATSTONE CHRISTOPHER

Assignee(s): (std): BECKER TODD ; BECKER TODD H ; CONROY THOMAS ; CONROY THOMAS A ; PATSTONE CHRISTOPHER H ; LANGTON DAVID L ; PATSTONE CHRISTOPHER ; LANGTON DAVID

Inventor(s): (std): CONROY THOMAS A ; PATSTONE CHRISTOPHER H ; BECKER TODD H ; LANGTON DAVID L

Agent(s): SPRUSON AND FERGUSON; FINDLAY ALICE ROSEMARY; NOE KEITH F

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

287) Family number: 44430982 (US2011174605A)

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Title: METHOD FOR THE DESALINATION OR PURIFICATION OF WATER BY DISTILLATION OF A SPRAY (SPRAY PUMP)

Abstract: A system enables the use of solar heat energy together with electromagnetic energy and optionally energy produced during fermentation of organic products to produce fresh water from salt water, wastewater and water vapor contained in the atmosphere. The resulting fresh water can optionally be rendered drinkable by adding mineral salts at the desired concentration. A method and reactors combine electromagnetic and solar heating steps and optionally heat exchanges with a hot gas originating from combustion, to evaporate droplets of a spray produced from salt water or wastewater. The vapor obtained is separated from the salt particles or agglomerated impurities during evaporation using a cyclone system. The vapor can then be transported over a large distance before being condensed by bearings, in order to separate the water from any additives or impurities that may be present. Additives can be used to lower the vapor pressure of the liquid water and to facilitate droplet fractionation.

Classifications:

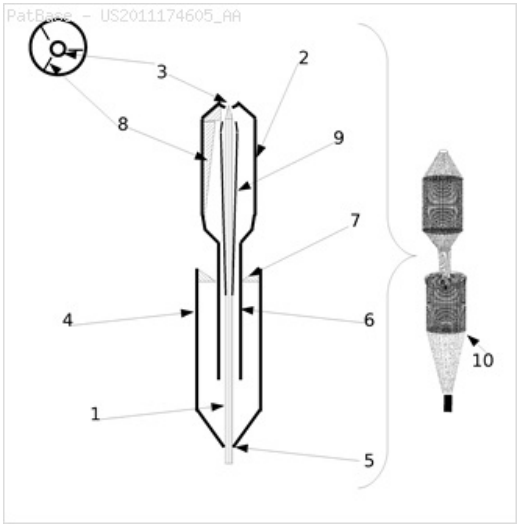
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C02F1/00 C02F1/36 C02F1/44 C02F103/08 (Advanced/Non-invention);
B01D1/16 B05B1/00 C02F1/04 C02F1/06 C02F1/10 C02F9/02 C02F9/08 (Core/Invention);
B01D (Subclass/Invention)

International (IPC 1-7): B01D1/16 B01D1/18 B01D1/20 B05B1/00 C02F1/06 C02F1/12

CPC: Y10S203/11 Y10S203/01 Y10S203/18 B01D1/18 B01D1/16 C02F1/36 Y02W10/37 C02F1/06 B01D1/20 C02F1/001 C02F1/12 C02F1/444 Y02P70/34 Y02A20/128 Y02A20/131

European: B01D1/16 B01D1/18 B01D1/20 C02F1/06 C02F1/12 M02F1/00D M02F1/36 M02F1/44D

US: 203/10 203/100 203/10P 203/63 203/90 203/DIG.1 203/DIG.17 210/512.1 210/695 210/774 210/787 210/806 239/13 239/8 55/337 95/279



Family:

Publication number	Publication date	Application number	Application date
FR2941224 A1	20100723	FR20080004656	20080820
FR2941227 A1	20100723	FR20090000258	20090121
FR2941227 B1	20130208	FR20090000258	20090121
IL211239 A0	20110428	IL20090211239	20090820
IL211239 A1	20170228	IL20090211239	20090820
MA32571 B1	20110801	MA20110033626	20110218
US2011174605 AA	20110721	US20090060131	20090820
US8906203 BB	20141209	US20090060131	20090820
WO10020723 A2	20100225	WO2009FR01019	20090820
WO10020723 A3	20100603	WO2009FR01019	20090820
WO10020723 A9	20100415	WO2009FR01019	20090820

Priority:

FR20080004656 20080820 FR20090000258 20090121 WO2009FR01019 20090820

Probable Assignee: UGOLIN NICOLAS

Assignee(s): (std): UGOLIN NICOLAS

Assignee(s): NICOLAS UGOLIN

Inventor(s): (std): UGOLIN NICOLAS

Inventor(s): NICOLAS UGOLIN

Agent(s): NICOLAS UGOLIN; WEBB AND CO; YOUNG AND THOMPSON

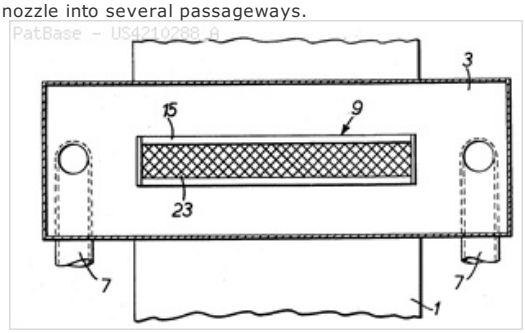
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SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

288) Family number: 31134989 (US4210288A)

Title: Cooling apparatus

Abstract: An apparatus for producing a continuous curtain of cooling liquid to cool a hot metal workpiece issuing from a rolling mill. A header tank with an elongated slot formed lengthwise along its underside is provided. An elongated nozzle, located in the header has an outlet extending from the slot. Both the inlet and outlet of the nozzle are generally rectangular in form but differ considerably in cross-section. An insert divides the nozzle into several passageways.



Classifications:
International (IPC 8-9): B05B1/00 B05C5/00 B21B45/02 C21D1/00 C21D1/667 C21D9/52 F25D1/02 H01H19/62 H01H19/63 H01H19/64 (Advanced/Invention);
B05C5/00 B21B45/02 C21D1/00 C21D1/62 C21D9/52 F25D1/00 H01H19/00 (Core/Invention)
International (IPC 1-7): A61K39/205 B05B1/00 B05B1/04 B21B43/00 B21B45/02 C12N7/00 C21D1/00 F25D1/02
CPC: B05C5/005 B21B45/0233 C21D1/667 H01H19/62 H01H19/64 H01H19/63
European: B05C5/00E B21B45/02C4L12 C21D1/667 H01H19/62 H01H19/63 H01H19/64
US: 239/597 266/113

Family:

Publication number	Publication date	Application number	Application date
BE517792 A	00000000		00000000
BE517793 A	00000000		00000000
BE863734 A	19780529	BE19780184973	19780207
BR7800714 A	19780912	BR19780000714	19780203
CA1102850 A1	19810609	CA19780296099	19780131
CH313043 A	19560315		19521215
CH314460 A	19560615		19521212
DE2804982 A1	19780810	DE19782804982	19780206
DE2804982 C2	19860717	DE19782804982	19780206
DE972402 A	19590716	DE1952B019156	19520220
FR1067322 A	19540615		19521201
FR1072483 A	19540913		19521204
FR2379779 A1	19780901	FR19780004049	19780206
FR2379779 B1	19840406	FR19780004049	19780206
GB1595312 A	19810812	GB19770004932	19770207
IL53644 A1	19810731	IL19770053644	19771219
JP1124345 C3	19821130	JP19780012252	19780206
JP53099018 A2	19780830	JP19780012252	19780206
JP57011376 B4	19820304	JP19780012252	19780206
MX146334 A	19820610	MX19780172295	19780202
NL174371 B	19840102	NL19780000708	19780120
NL174626 B	19840216	NL19780001133	19780201
NL174626 C	19840716	NL19780001133	19780201
NL7801133 A	19780809	NL19780001133	19780201
SU736862 D	19800525	SU19782576701	19780207
SU736862 T	19800525	SU19782576701	19780207
US4210288 A	19800701	US19780874740	19780203

Priority:

19520219 19520219 DE1952B019156 19520220
GB19770003258 19770126 GB19770004932 19770207 CA19780296099 19780131

Probable Assignee: DAVY LOEWY LTD

Assignee(s): (std): BUSCH JAEGER DUERENER METALL ; DAVY LOEWY LTD ; DAVY LOEWLY LTD ; BUSCH JAEGER LU DENSCHEIDER ME ; DEIIBII ROOUI LTD ; GIST BROCADES NV ; DAVY LOEWY TE SHEFFIELD GROOT BRITTANNIE LTD

Assignee(s): DEJVI LOUVI FA LTD ; GIST BROCADES N V TE DELFT ; DEJVI LOUVI LIMITED FIRMA ; DOBSON JOHN C ; DAVY LOEWY LIMITED ; DAVY LOEWY LIMITED TE SHEFFIELD GROOT BRITTANNIE ; BUSCH JAEGER LU DENSCHEIDER METALLWERKE AKTIENGESELLSCHAFT ; BUSCH JAEGER LU DENSCHEIDER METALLWERKE AKTIENGESE ; DAVY LOEWY LTD SHEFFIELD YORKSHIRE GB ; BUSCH JAEGER DUERENER METALLWERKE AG ; BUSCH JAEGER DUERENER METALLWERKE AKTIENGESELLSCHA ; BUSCH JAEGER DUERENER METALLWERKE AKTIENGESELLSCHAFT

Inventor(s): (std): NILSSON J O ; JIYON KURIFUOODO DOBUSON ; DOBSON JOHN CLIFFORD ; DOBSON JOHN C ; DOBSON J ; HEINZ SCHMALE ; ALFRED EPPINGER ; DOBSON DZHON KLIFFORD ; SCHMALE HANS ; DZHON KLIFFORD DOBSON GB ; EPPINGER ALFRED ; GOSSE BIJLENGA ; HEINRICH BUSCH

Inventor(s): BUSCH HEINRICH ; JOHN CLIFFORD DOBSON ; CLIFFORD DOBSON JOHN ; DOBSON JOHN CLIFFORD SHEFFIELD YORKSHIRE GB ; SCHMALE HEINZ

Agent(s): KIRBY EADES GALE BAKER; REINHOLD COHN AND PARTNERS

289) Family number: 71310992 (WO18172292A1)

Title: METHOD AND CONTAINER FOR CLEANING THE MEMBRANE OF A NEBULIZER

Abstract: The present invention provides a single-use, pre-packaged, sealed container (1) for use with a nebulizer device having an aerosol generator comprising a membrane, the container containing a cleaning liquid (3) and being configured to

fit onto the nebulizer device, so that the container is held in place on the nebulizer device and the membrane is immersed in the liquid. The invention also provides a strip comprising a plurality of containers (10), wherein each container is detachable from the rest of the strip; a pack comprising a multi-day supply of a drug and containers; and a method for cleaning the membrane of a nebulizer device using the container.

Classifications:
International (IPC 8-9): A61M11/00 A61M15/00 B05B17/06 (Advanced/Invention)
CPC: A61M15/001 A61M15/0021 A61M11/005 A61M15/00 A61M15/0051 A61M15/0085 A61M2209/10 B05B17/0646 A61M11/003 A61M2205/123 A61M15/0001

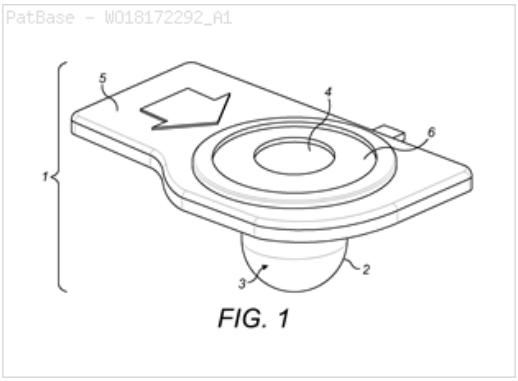


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
AU2018237903 AA	20191003	AU20180237903	20180319
AU2018237904 AA	20190926	AU20180237904	20180319
CA3056272 AA	20190911	CA20183056272	20180319
CA3056275 AA	20190911	CA20183056275	20180319
CN110430910 A	20191108	CN201880019053	20180319
CN110446515 A	20191112	CN201880019057	20180319
KR20190125474 A	20191106	KR20197030124	20180319
KR20190126896 A	20191112	KR20197030608	20180319
WO18172292 A1	20180927	WO2018EP56909	20180319
WO18172293 A1	20180927	WO2018EP56910	20180319

Priority:

EP20170161909 20170320 EP20170161910 20170320 EP20170161911 20170320
WO2018EP56910 20180319 WO2018EP56909 20180319

Probable Assignee: VECTURA DELIVERY DEVICES LTD

Assignee(s): (std): VECTURA DELIVERY DEVICES LTD

Assignee(s): MUELLINGER BERNHARD ; VOGEL JANA ; HUBER MARTIN ; KOLB TOBIAS ; KRUEGER ULF ; KRUGER ULF

Inventor(s): (std): KRUGER ULF ; KRUEGER ULF ; HUBER MARTIN ; VOGEL JANA ; MUELLINGER BERNHARD ; KOLB TOBIAS

Agent(s): SPRUSON AND FERGUSON; SMART AND BIGGAR; SMART AND BIGGAR LLP; CLARKE CHRISTOPHER

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

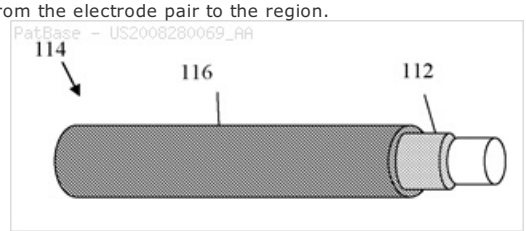
290) Family number: 42497993 (US2008280069A)

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Title: METHOD AND SYSTEM FOR PRINTING ALIGNED NANOWIRES AND OTHER ELECTRICAL DEVICES

Abstract: Methods and systems for applying nanowires and electrical devices to surfaces are described. In a first aspect, at least one nanowire is provided proximate to an electrode pair. An electric field is generated by electrodes of the electrode pair to associate the at least one nanowire with the electrodes. The electrode pair is aligned with a region of the destination surface. The at least one nanowire is deposited from the electrode pair to the region. In another aspect, a plurality of electrical devices is provided proximate to an electrode pair. An electric field is generated by electrodes of the electrode pair to associate an electrical device of the plurality of electrical devices with the electrodes. The electrode pair is aligned with a region of the destination surface. The electrical device is deposited from the electrode pair to the region.

Classifications:
International (IPC 8-9): B05B5/025 B05D1/04 B05D5/12 B41F16/00 B81C99/00 B82B1/00 B82B3/00 B82Y40/00 H01L21/00 H01L21/027 H01L29/06 H01T14/00 (Advanced/Invention);
B05B5/025 H01L21/00 H01L21/02 H01T14/00 (Core/Invention)
CPC: B82B3/00 B82Y30/00 B82Y40/00 H01L21/82 H01L21/6835 H01L2221/68354 H01L2221/68363
European: B82B3/00 B82Y30/00 B82Y40/00
US: 118/621 118/621S 427/458 427/466 427/466P 427/475 427/475S 427/580 427/580P



Family:

Publication number	Publication date	Application number	Application date
CN101711421 A	20100519	CN200880014974	20080505
JP2010530810 T2	20100916	JP20100507581T	20080505
JP5606905 B2	20141015	JP20100507581T	20080505
KR101502870 B1	20150317	KR20097025545	20080505
KR20100039276 A	20100415	KR20097025545	20080505
TW200914367 A	20090401	TW20080116662	20080506
TWI359784 B	20120311	TW20080116662	20080506
US2008280069 AA	20081113	US20080114446	20080502
US2011165337 AA	20110707	US20110009675	20110119
US7892610 BB	20110222	US20080114446	20080502

WO09023305 A2	20090219	WO2008US62623	20080505
WO09023305 A3	20090522	WO2008US62623	20080505

Priority:

US20070916337P 20070507 US20080114446 20080502 WO2008US62623 20080505 US20110009675 20110119

Probable Assignee: ONED MATERIAL LLC

Assignee(s): (std): FREER ERIK ; HAMILTON JAMES M ; MARTIN SAMUEL ; NANOSYS INC ; PARCE J WALLACE ; SHARP KK

Assignee(s): SHARP CO ; SHARP CO LTD ; ONED MATERIAL LLC ; SHARP CORP ; PARCE J ; MPEG LA LLC

Inventor(s): (std): HAMILTON JAMES M ; PARCE J WALLACE ; MARTIN SAMUEL ; FREER ERIK ; WALLACE PARCE J ; SAMUEL MARTIN ; ERIK FREER

Inventor(s): PARCE J

Agent(s): HARAKENZO WORLD PATENT AND TRADEMARK; FIALA AND WEAVER PLLC C O INTELLEVATE; FIALA AND WEAVER PLLC; WEAVER JEFFREY S

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

291) Family number: 56664997 (US2015367366A)

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Title: AEROSOL DISPENSER WITH EDIBLE CARTRIDGE

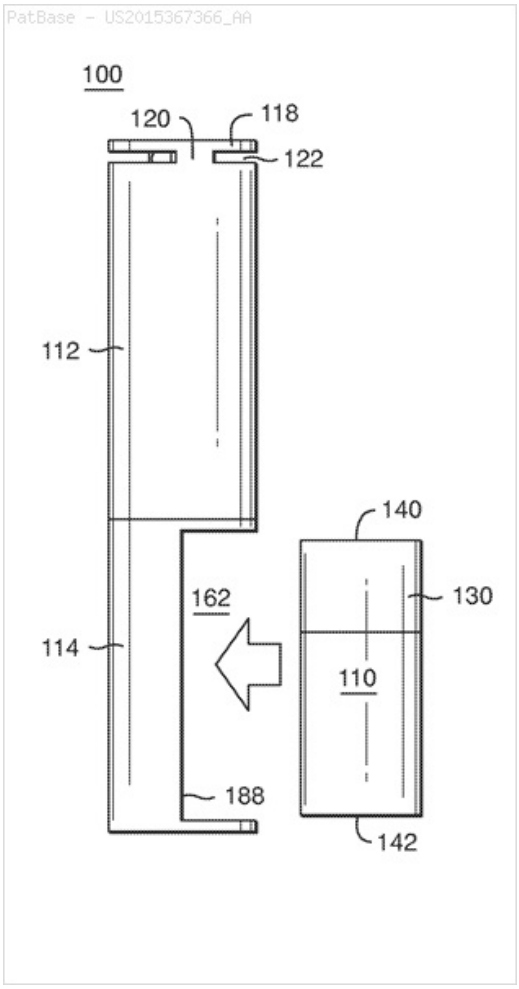
Abstract: An aerosolizing delivery device can include a carriage configured to be detachably connected to a mouthpiece and to receive and support an aerosolizable powder-filled cartridges in a desired position relative to the mouthpiece. The carriage can include: a housing defining a reservoir and a carriage outlet, the carriage outlet configured to permit fluid communication between the reservoir and an exterior of the carriage. A surface of the housing can be configured to define a bypass port between the housing and a surface of the mouthpiece when the carriage is assembled with the mouthpiece to form the delivery device.

Classifications:

International (IPC 8-9): A23G1/50 A23G1/56 A23L1/236 A23L1/30 A23L1/302 A23L1/304 A61K31/522 A61K9/00 A61K9/12 A61K9/46 A61M15/00 A61M15/06 B05B11/00 (Advanced/Invention)

CPC: A23G1/56 A61K9/006 A61K31/522 A61M15/0036 A61M15/004 A61M15/06 A61M2210/0625 A61K9/145 A61M11/002 A61M15/002 A23G1/50 A61M11/005 A61M11/02 A61M15/0035 A61M15/0041 A61M2205/071 A61M2210/1042 A61K9/12 A23V2002/00 A61K31/4045 A61K31/496 A61M15/0023 A61M15/0025 B05B11/0054 A61M15/009 A61M15/0028 A61M2202/064 A23L7/109 A61M15/0021 A23L33/15 A23L33/16 A23P30/10 A23L27/86 A23L33/10

US: 239/302



Family:

Publication number	Publication date	Application number	Application date
EP2928315 A2	20151014	EP20130812305	20131204
US2015367366 AA	20151224	US20130650211	20131204
WO14089174 A2	20140612	WO2013US73049	20131204
WO14089174 A3	20140918	WO2013US73049	20131204
WO14150826 A1	20140925	WO2014US24335	20140312
WO14151329 A1	20140925	WO2014US25481	20140313

Priority:

US20120734257P 20121206 US20130790472P 20130315 US20130788212P 20130315

US20130650211 20131204 WO2013US73049 20131204 US20140942410P 20140220

Probable Assignee: AERODESIGNS INC

Assignee(s): (std)**:** AERODESIGNS INC

Inventor(s): (std)**:** LALOR CECILY ; BHATTA DEEN ; WINSLOW SCOTT ; VAUGHN JEFFREY L ; GIRI ANMOL ; EDWARDS DAVID A ; LAMPPA JOHN A

Agent(s): MOORE BARRY; UNDERWOOD ROBERT H ET AL; CONNARN KRISTIN A ET AL

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