

1) Family number: 10848018 (US5703734A)

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Title: DISC DRIVE HAVING AN INTEGRAL GASKET AND CONTINUOUS OUTER PERIMETER SHOCK BUMPER

Abstract: A disk drive has at least one disk for storing data and at least one transducer for reading or writing data to or from the disk. The transducer is attached to an actuator which positions the transducer with respect to the disk. The actuator includes a controllable motor which is used to move the actuator and the transducer attached thereto. The disk drive also includes a ramp for off loading the transducer or for parking the transducer off of the surface of the disk. The disk drive includes a combination shock absorber and gasket that has locking tabs to keep the combination shock absorber and gasket in place during a shock or impact loading event. The combination shock absorber and gasket also can be provided with additional extensions to lessen shocks caused by flat drops. Elastomeric blocks or pads can be provided on the cover and the base to lessen shocks caused by flat drops. The drive can also have rotatable elastomeric blocks that can rotate to a position above the disk drive to lessen shocks resulting from flat drops. The drive also is provided with a shock sensor which provides visual evidence that the drive has undergone a shock of a predetermined threshold. Another shock absorbing system uses a shroud around the connector on the disk drive.

Classifications:

International (IPC 8-9): G11B25/04 G11B33/08

G11B33/10 (Advanced/Invention)

International (IPC 1-7): G11B25/04 G11B33/08 G11B33/10

G11B33/14

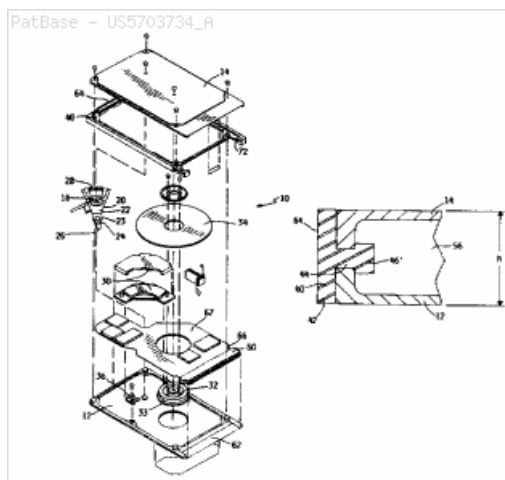
CPC: Y10S360/90 G11B25/043 G11B33/08 G11B33/10

European: G11B25/04R G11B33/08 G11B33/10

US: 220/378 248/615 360/137 360/900 360/97.02 360/99.18

361/679.33 361/679.34 361/685 369/263 369/292 369/75.1 720/651

G9B/25.003 G9B/33.024 G9B/33.025



Family:

Publication number	Publication date	Application number	Application date
US5703734 A	19971230	US19960749480	19961113
US5760998 A	19980602	US19970898190	19970722
US6108163 A	20000822	US19950463168	19950605

Priority:

US19940321935 19941012 US19950463168 19950605 US19960749480 19961113
US19970898190 19970722

Probable Assignee: IBM

Assignee(s): (std) IBM

Assignee(s): INT BUSINESS MACHINES CORP ; MARIANA HDD BV ; WESTERN DIGITAL TECHNOLOGIES INC ; HGST NETHERLANDS BV ; HITACHI GLOBAL STORAGE TECHNOLOGIES NETHERLANDS BV

Inventor(s): (std) BERBERICH JAMES WILLIAM ; BERG LOWELL JAMES ; BOUTAGHOU ZINE EDDINE ; HEATH JOHN S ; NEUBAUER JERRY LEE

2) Family number: 32367019 (AU2005211589A)

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Title: MULTIPLE SCENT-CONTAINING ARTICLE OF MANUFACTURE WITH THEME

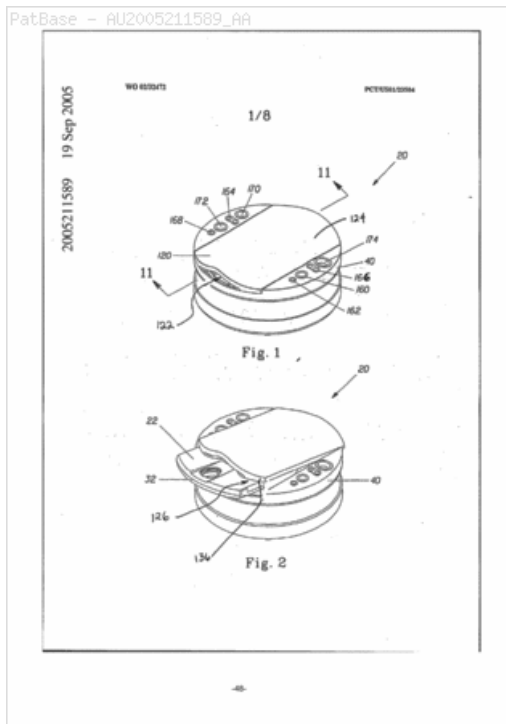
Abstract: A multiple scent-containing article of manufacture for dispensing multiple scents into C3 the environment wherein a number of the scents in the article are related to each other is disclosed. In one variation, the scents are selected from a group of different types of scents. In another variation, certain of the scents, or all of the scents, can be related to each other in that they share a common theme. 00 (N Y:LouiseP G\Spedes\685173_sped_dlv.doc

Classifications:

International (IPC 8-9): A61L9/03 A61L9/12 (Advanced/Invention);

A61L9/015 A61L9/12 (Core/Invention)

International (IPC 1-7): A61L9/03 A61L9/12

**Family:**

Publication number	Publication date	Application number	Application date
AU2005211589 AA	20051006	AU20050211589	20050919

Priority:

WO2000US20499 20000727	US20000251067P 20001204	US20000730226 20001205
US20000730261 20001205	US20000730333 20001205	AU20010280794 20010726
AU20050211589 20050919		

Probable Assignee: PROCTER AND GAMBLE CO**Assignee(s):** (std): PROCTER AND GAMBLE**Assignee(s):** THE PROCTER AND GAMBLE COMPANY ; PROCTER AND GAMBLE CO**Inventor(s):** (std): BARTSCH ERIC RICHARD ; KVIETOK FRANK ANDREJ ; LAUDAMIEL PELLET CHRISTOPHE ; OWENS GROVER DAVID ; GOODALL KEVIN GEORGE ; RODRIGUEZ PEDRO ANTONIO ; TRINH TOAN**Inventor(s):** TOAN TRINH ; GROVER DAVID OWENS ; KEVIN GEORGE GOODALL ; PEDRO ANTONIO RODRIGUEZ ; CHRISTOPHE LAUDAMIEL PELLET ; ERIC RICHARD BARTSCH ; FRANK ANDREJ KVIETOK**Agent(s):** PHILLIPS ORMONDE FITZPATRICK**3) Family number: 51594027 (US2012190715A)**

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Title: HIGHLY PENETRATING COMPOSITIONS AND METHODS FOR TREATING PATHOGEN-INDUCED DISORDERED TISSUES

Abstract: Compositions and methods for treating disordered tissues, such as caused by pathogens and/or by toxins. The treatment compositions include an anti-infective active agent, a liquid carrier, and benzocaine in an amount so that the treatment composition penetrates more quickly into disordered tissue compared to the treatment composition in the absence of the benzocaine. In addition, the benzocaine can increase residence time of the anti-infective active in the treatment area. The preferred anti-infective active agent can be an organohalide, such as a quaternary ammonium halide compound, an example of which is benzalkonium chloride. The treatment compositions and methods may employ the use of an applicator adapted for use in promoting penetration of the treatment composition and/or agitation of the disordered tissue to further enhance penetration.

Classifications:

International (IPC 8-9): A61K A61K31/14 A61K31/155 A61K31/245
A61K31/4425 A61K45/06 A61K47/10 A61K47/18 A61K9/00
A61K9/08 A61P17/00 A61P17/02 A61P23/00 A61P31/00 A61P31/04
A61P31/10 A61P31/12 (Advanced/Invention);
A61K31/14 A61K31/245 (Core/Invention);
A61K (Subclass/Invention)

CPC: A61K2300/00 A61P17/02 A61P23/00 A61P17/00 A61K47/186
A61K9/0014 A61K9/08 A61K31/14 A61K31/155 A61K31/245
A61K31/4425 A61K45/06 A61K47/10 A61K47/18 A61P31/00
A61P31/04 A61P31/10 A61P31/12

European: A61K31/14 A61K31/155 A61K31/245 A61K31/4425
A61K45/06 A61K47/10 A61K9/00M3 A61K9/08

US: 1/1 514/358 514/536 514/536S 514/635 514/635S 514/643
514/643S

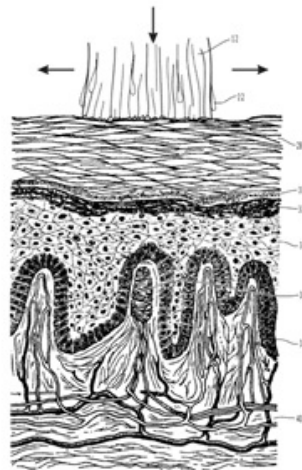


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
AU2012209412 AA	20120802	AU20120209412	20120119
AU2012209412 BB	20160915	AU20120209412	20120119
BR112013018901 A2	20170328	BR20131118901	20120119
CA2824766 AA	20130712	CA20122824766	20120119
EP2667865 A1	20131204	EP20120702683	20120119
IL227566 A0	20130930	IL20120227566	20120119
IL227566 A1	20180920	IL20120227566	20120119
IN06301DN2013 A	20160520	IN2013DN06301	20130715
JP2014503603 T2	20140213	JP20130552020T	20120119
JP6039584 B2	20161207	JP20130552020T	20120119
KR20140005996 A	20140115	KR20137022305	20120119
KR20180077306 A	20180706	KR20187018264	20120119
MX2013008189 A1	20130821	MX20130008189	20120119
MX336765 B	20160129	MX20130008189	20120119
NZ613262 A	20151030	NZ20120613262	20120119
RU2013139163 A	20150310	RU20130139163	20120119
RU2586969 C2	20160610	RU20130139163	20120119
TH154754 A	20160728	TH20131004105	20120119
TW201309342 A	20130301	TW20120102949	20120130
TWI503133 B	20151011	TW20120102949	20120130
US2012190715 AA	20120726	US20110012719	20110124
US2014364495 AA	20141211	US20140466625	20140822
US2014364496 AA	20141211	US20140466637	20140822
US2018028666 AA	20180201	US20170629317	20170621
US8846725 BB	20140930	US20110012719	20110124
US9314526 BB	20160419	US20140466625	20140822
WO12102936 A1	20120802	WO2012US21877	20120119

Priority:

US20110012719 20110124 WO2012US21877 20120119 US20140466625 20140822
 US20140466637 20140822 US20170629317 20170621

Probable Assignee: QUADREX PHARMACEUTICALS LLC**Assignee(s):** (std): JOHNSON B RON ; KVADEKS FARMASYUTIKALZ ELELSI ; MCCARTHY JAMES P ; QUADREX PHARMACEUTICALS LLC**Assignee(s):** JOHNSON B RON MR ; JOHNSON B**Inventor(s):** (std): B RON JOHNSON ; DZHONSON B RON ; JAMES P MCCARTHY ; JOHNSON B RON ; JOHNSON RON B ; MAKKARTI DZHEJMS P ; MCCARTHY JAMES P**Inventor(s):** JOHNSON B ; DZHONSON B**Agent(s):** GRIFFITH HACK; CASSAN MACLEAN; CASSAN MACLEAN IP AGENCY INC; ADAM HOLGER; REINHOLD COHN AND PARTNERS; YAMAMOTO OSAMU; TAKEUCHI SHIGEO; ONO SHINJIRO; YAMAGUCHI AKIKO; KOBAYASHI YASUSHI; WORKMAN NYDEGGER; STRINGHAM JOHN 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 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

Abstract: A composition and process for making the composition by co-refining: fibrillated virgin cellulose fibers, waste/recycle cellulose fibers, or both; co-refined cellulose ester (CE) staple fibers having a denier per filament (DPF) of less than 3 and the weight percent of CE staple fibers is less than 30 weight percent, based on the weight of CE staple fibers and said cellulose fibers; and water. The composition can be co-refined to obtain lower Canadian standard freeness yet improved drainage and wet laid products having good tensile strength, air permeability, stiffness, burst strength, and bulk.

Classifications:

International (IPC 8-9): D21C9/06 D21C9/08 D21F1/00 D21F1/02 D21F1/10 D21H11/04 D21H11/06 D21H11/08 D21H11/14 D21H11/16 D21H11/20 D21H13/06 D21H13/08 D21H15/04 D21H15/10 D21H17/15 D21H17/17 D21H17/28 D21H17/62 D21H17/67 D21H17/68 D21H21/16 D21H21/20 D21H21/28 D21H21/36 (Advanced/Invention)

CPC: D21C9/08 D21H11/14 D21H11/04 D21H11/06 D21H11/08 D21H13/06 D21F11/00 D21H17/68 D21H17/67 D21H11/20 D21H15/04 D21H15/10 D21H21/16 D21H11/16 D21F1/10 D21F1/024 D21F1/0018 D21C9/06 D21H21/20 D21H17/62 D21H17/28 D21H17/17 D21H17/15 D04H1/26 D04H1/425 D04H1/43912 D04H1/43918 D04H1/732 D21H27/10 D21H11/18 D21H17/67 D21H21/36 D21H11/12 D04H5/08 D21H27/002 D04H1/28 D04H1/4258 D04H1/43835



Family:

Publication number	Publication date	Application number	Application date
US2020063339 AA	20200227	US20190522931	20190726
US2020063356 AA	20200227	US20190522923	20190726
US2020063357 AA	20200227	US20190522929	20190726
US2020063358 AA	20200227	US20190522932	20190726
US2020063359 AA	20200227	US20190522937	20190726
US2020063360 AA	20200227	US20190522942	20190726
WO20046628 A2	20200305	WO2019US47166	20190820
WO20046628 A3	20200514	WO2019US47166	20190820

Priority:

US20180721846P 20180823	US20180721850P 20180823	US20180721877P 20180823
US20180721851P 20180823	US20180721872P 20180823	US20180721880P 20180823
US20190522931 20190726	US20190522923 20190726	US20190522937 20190726
US20190522942 20190726	US20190522929 20190726	US20190522932 20190726

Probable Assignee: EASTMAN CHEMICAL CO

Assignee(s): (std): EASTMAN CHEM CO

Assignee(s): EASTMAN CHEMICAL CO

Inventor(s): (std): EVERETT CHARLES STUART ; GHOSH KUSHIK ; GHOST KUSHIK ; IZALLALEN MOUNIR ; MITCHELL MELVIN GLENN ; PARKER KENNY RANDOLPH

Agent(s): CARMEN DENNIS V

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

5) Family number: 77813034 (US2020063342A)

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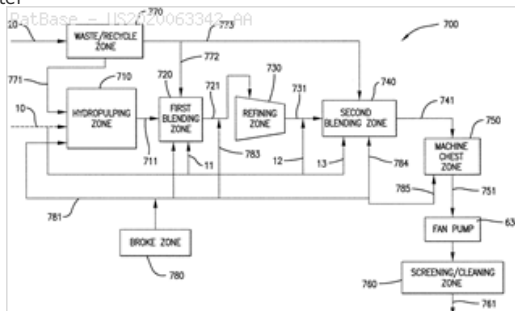
Title: ADDITION OF CELLULOSE ESTERS TO A PAPER MILL WITHOUT SUBSTANTIAL MODIFICATIONS

Abstract: The present invention provides compositions comprising cellulose fibers and cellulose ester fibers and wet laid articles made from the compositions, as well as wet laid processes to produce these compositions. More specifically, the present invention provided compositions comprising cellulose fibers and cellulose acetate fibers and wet laid articles made from these compositions as well as wet laid processes to produce these compositions. The present invention also relates to developing a composition, process, wet laid product, or articles exhibiting any one of many the desired benefits. This invention also relates to a process to produce a wet laid article in a paper mill, said process comprising adding cellulose ester staple fiber to a hydropulper zone, and/or to a refining zone, and/or after the refining zone wherein said paper mill process is not substantially modified to allow for said adding of said cellulose ester

Classifications:

International (IPC 8-9): D21D1/20 D21D1/22 D21F1/00 D21H11/20 D21H15/04 D21H15/10 D21H21/10 (Advanced/Invention)

CPC: D21D1/20 D21H15/04 D21H11/20 D21F1/0018 D21D1/22 D21H13/06 D21B1/00 D21H15/10 D21C9/007 D21H21/18 D21F11/00



Family:

Publication number	Publication date	Application number	Application date
US2020063342 AA	20200227	US20190522997	20190726
US2020063343 AA	20200227	US20190522962	20190726
WO20041250 A1	20200227	WO2019US47175	20190820

Priority:

US20180721805P 20180823	US20180721837P 20180823	US20180721888P 20180823
US20180721853P 20180823	US20180721847P 20180823	US20180721900P 20180823
US20190522997 20190726	US20190522962 20190726	

Probable Assignee: EASTMAN CHEM CO

Assignee(s): (std): EASTMAN CHEM CO

Assignee(s): EASTMAN CHEMICAL CO

Inventor(s): (std): EVERETT CHARLES ; EVERETT CHARLES STUART ; MITCHELL MELVIN GLENN ; GHOSH KUSHIK ;

IZALLALEN MOUNIR ; MITCHELL MELVIN ; PARKER KENNY RANDOLPH ; PARKER KENNY

Agent(s):

OWEN STEVEN 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
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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

6) Family number: 60959039 (WO17046593A3)

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Title: AN INHALABLE COMPOSITION AND AN INHALER

Abstract: An inhaler comprising a reservoir (2) of an inhalable composition, a heater (6) to selectably volatilise at least some components of the composition, and a power source (8) arranged to selectively supply electrical power to the heater when the user inhales from the inhaler, the inhalable composition comprising: • nicotine or a pharmaceutically acceptable derivative or salt thereof, • a glycol and/or glycol ether, and • a propellant, wherein the propellant is present in an amount of from greater than 0 percent w/w to less than 95 percent w/w based on the total weight of the composition.

Classifications:

International (IPC 8-9): A24B15/00 A24B15/16 A24B15/24

A24F47/00 A61K31/465 A61K47/10 A61K9/00 A61M11/04

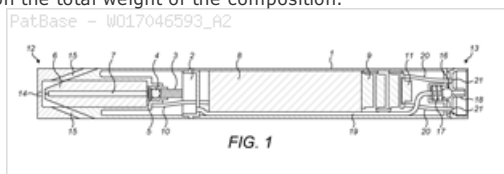
A61M15/00 A61M15/06 A61M16/00 (Advanced/Invention);

A61M16/00 (Advanced/Non-invention)

CPC: A61M15/06 A61M11/041 A61M15/009 A24B15/167 A61K31/465

A61M2016/0015 A61M2205/3653 A61M2205/82 A61M2206/16

A24B15/243 A61K9/008 A61M2209/045 A24F47/008 A61M15/002



Family:

Publication number	Publication date	Application number	Application date
■ CN108348013 A	20180731	CN201680066605	20160915
■ EP3349605 A2	20180725	EP20160770320	20160915
■ GB201516558 A0	20151104	GB20150016558	20150918
■ GB2542404 A1	20170322	GB20150016558	20150918
■ GB2542404 B2	20190814	GB20150016558	20150918
■ WO17046593 A2	20170323	WO2016GB52885	20160915
■ WO17046593 A3	20170427	WO2016GB52885	20160915

Priority:

GB20150016558 20150918 WO2016GB52885 20160915

Probable Assignee: KIND CONSUMER LTD

Assignee(s): (std): KIND CONSUMER LTD

Inventor(s): (std): ALEX HEARN ; RITIKA GUPTA ; HEARN ALEX ; GUPTA RITIKA

Agent(s): BOULT WADE TENNANT

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 JO 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

7) Family number: 31780046 (US2005068760A)

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Title: MULTI-SHAPE AND MULTI-COLOR CHEMILUMINESCENT DEVICE

Abstract: A chemiluminescent device providing multi-shape and optionally multi-color images that comprises two fluid-impermeable polymer sheets of the same shape, sealed together at their edges to provide a space for reactants, at least one of said sheets being translucent or transparent; one absorbent sheet (pad) having essentially the same shape as said fluid-impermeable sheets and placed between them in said space; reactants capable of producing chemiluminescent effect, comprising at least one chemiluminescent compound, peroxide, solvent, and optionally one or more fluorescent dye; separation means that prevents mixing said chemiluminescent compound and said peroxide before wishing to start said effect; and partition means providing that at least one of said reactants does not reach the whole volume of said space during said chemiluminescent effect. This effect is started, and said images are created, by removing said separation means.

Classifications:

International (IPC 8-9): C09K11/07 C09K9/02 F21K2/00 F21K2/06

F21V9/16 (Advanced/Invention);

C09K9/02 F21K2/00 F21V9/00 (Core/Invention);

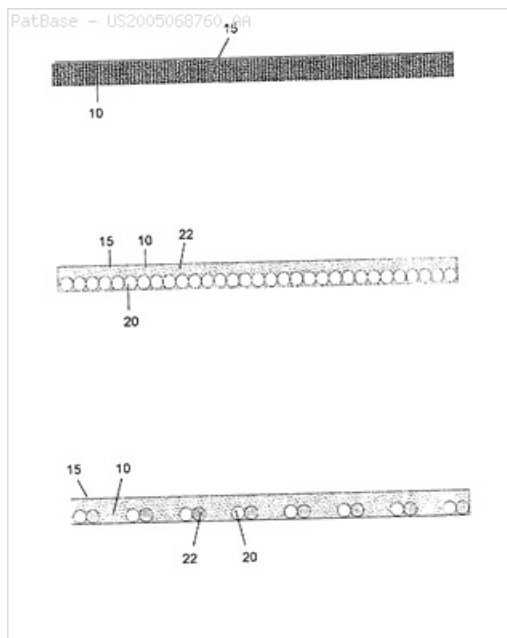
G01N (Subclass/Invention)

International (IPC 1-7): F21K2/00 G01N G01N1/00

CPC: Y10T428/31957 C09K11/07 F21K2/06

European: C09K11/07 C09K9/02 F21K2/06

US: 362/34 362/34P 428/528



Family:

Publication number	Publication date	Application number	Application date
DE602004042834 D1	20130919	DE200460042834T	20040923
EP1676114 A2	20060705	EP20040770560	20040923
EP1676114 A4	20090513	EP20040770560	20040923
EP1676114 B1	20130724	EP20040770560	20040923
ES2430824 T3	20131121	ES20040770560T	20040923
IL174509 A0	20060801	IL20060174509	20060323
IL174509 A1	20101130	IL20040174509	20040923
US2005068760 AA	20050331	US20030672168	20030926
US7540621 BB	20090602	US20030672168	20030926
WO05031298 A2	20050407	WO2004IL00889	20040923
WO05031298 A3	20061207	WO2004IL00889	20040923

Priority:

US20030672168 20030926 EP20040770560 20040923 WO2004IL00889 20040923
 IL20060174509 20060323

Probable Assignee: FORMAGLOW LTD

Assignee(s): (std): FORMAGLOW LTD ; GOYCHRACH YUVAL

Assignee(s): YUVAL GOYCHRACH

Inventor(s): (std): GOYCHRACH YUVAL

Inventor(s): YUVAL GOYCHRACH

Agent(s): LANG JOHANNES; LEHMANN MARIA ISABEL; LUZZATTO AND LUZZATTO; KEVIN D MCCARTHY ROACH BROWN MCCARTHY AND GRUBER PC; KEVIN D; MCCARTHY KEVIN D; ROACH BROWN MCCARTHY AND GRUBER 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

8) Family number: 67076047 (US2017273821A)

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Title: ARRAY OF CUTANEOUS PATCHES FOR DELIVERY AND HEATING OF PERSONAL CARE PRODUCTS

Abstract: An array of heating patches for placement on the skin, especially the skin of the face. Each patch has a heating circuit incorporated therein, and the patches are electrically connected to each other in series and/or parallel. Electrical energy, and optionally, digital information, may be supplied to the patches through one or more cables that originate in an appropriate electrical connector. Each patch has two layers; a disposable layer and a reusable layer.

Classifications:

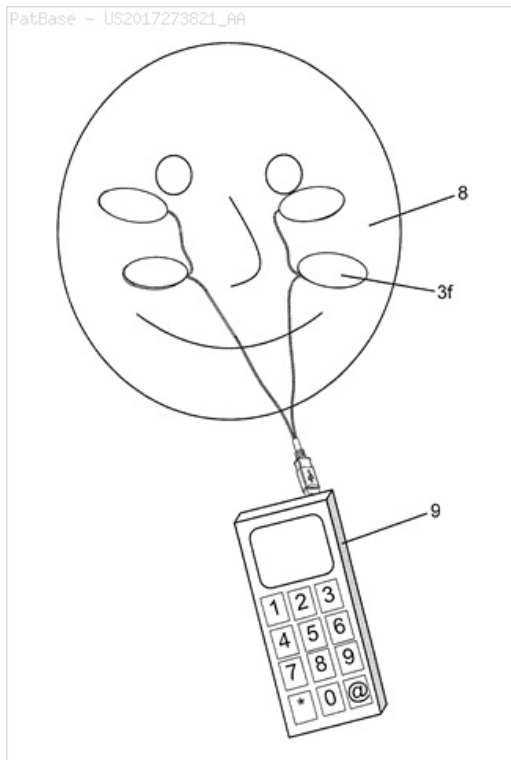
International (IPC 8-9): A45D44/00 A61F7/00 A61K8/02

A61K9/70 (Advanced/Invention)

CPC: A61F7/007 A61F2007/0003 A61F2007/0052 A61F2007/0074

A61F2007/0077 A61F2007/0226

US: 1/1 607/112

**Family:**

Publication number	Publication date	Application number	Application date
AU2017238180 AA	20181025	AU20170238180	20170322
CA3018146 AA	20180917	CA20173018146	20170322
CN108882991 A	20181123	CN201780019115	20170322
EP3432844 A1	20190130	EP20170771027	20170322
US2017273821 AA	20170928	US20160076791	20160322
WO17165472 A1	20170928	WO2017US23507	20170322

Priority:

US20160076791 20160322 WO2017US23507 20170322

Probable Assignee: ELC MANAGEMENT LLC

Assignee(s): (std): ELC MAN LLC

Assignee(s): JACOB CHRISTOPHE ; ELC MANAGEMENT LLC ; BOUIX HERVE F

Inventor(s): (std): BOUIX HERVE ; JACOB CHRISTOPHE ; BOUIX HERVE F

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

9) Family number: 80057055 (WO20148711A1)

© PatBase

Title: ELEMENT FOR MOISTURE CONTROL IN A CONTAINER

Abstract: The present invention refers to an element (E) for moisture control and to the use of said element for preserving substrates in controlled moisture conditions.

Classifications:

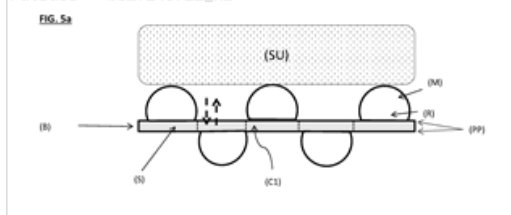
International (IPC 8-9): B65D81/20 B65D81/26

B65D81/28 (Advanced/Invention)

CPC: A23L3/3418 A23L3/3445 B65D75/327 B65D81/2076

B65D81/267 B65D81/28

PatBase - W020148711_A1

**Family:**

Publication number	Publication date	Application number	Application date
WO20148711 A1	20200723	WO2020IB50364	20200117

Priority:

IT201910000000757 20190117

Probable Assignee: TIPITALIA S R L

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

Assignee(s): TIPITALIA SRL
Inventor(s): (std): BASSO ANDREA ; BERZOLLA ANDREA
Agent(s): DE GREGORI ANTONELLA 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 WS ZA ZM ZW

10) Family number: 40807060 (US2009312731A)

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Title: NONWOVEN MELT-BLOWN PRODUCT

Abstract: The present invention relates to a product selected from the group consisting of filter products, disposable absorbent products, wipe products and structural and/or reinforcement products characterized in that the product is made of or includes a nonwoven web made by a melt-blowing process employing a cellulose solution in N-methyl-morpholine (NMMO).

Classifications:

International (IPC 8-9): A61F13/53 B01D39/16 B29C47/00 B32B5/00 D01F2/02 D04H1/4258 D04H1/56 D04H13/00 D04H3/005 D04H3/08 D04H3/16 (Advanced/Invention)

CPC: A61F13/51 A61F2013/15016 B01D39/18 B01D2239/0216 B01D2239/0258 B01D2239/0414 B01D2239/0442 B01D2239/045 B01D2239/10 D01D5/06 D01D5/14 D01F2/00 D04H1/4258 D04H3/013 D04H3/16 Y10T442/68

European: A61F13/51 B01D39/18 D01D5/06 D01D5/14 D01F2/00 D04H1/4258 D04H3/005 D04H3/16 K61F13/15A6 L01D239/02D L01D239/02K L01D239/04D L01D239/04H L01D239/04J L01D239/10

US: 156/180 156/180S 264/176.1 264/176.100S 428/219 428/219S 428/220 428/220S 442/400 442/400S 55/528 55/528S 604/374 604/374P 977/773 977/773S

Family:

Publication number	Publication date	Application number	Application date
EP2013385 A1	20090114	EP20070718409	20070426
US2009312731 AA	20091217	US20070298084	20070426
WO07124522 A1	20071108	WO2007AT00193	20070426

Priority:

AT20060000727 20060428 AT20060000729 20060428 AT20060000730 20060428
AT20060000731 20060428 WO2007AT00193 20070426

Probable Assignee: LENZING AG

Assignee(s): (std): RAHBARAN SHAYDA ; SCHMIDTBAUER JOSEF ; STEINDL THOMAS ; VOGLAUER BERNHARD ; CHEMIEFASER LENZING AG ; EINZMANN MIRKO

Assignee(s): LENZING AKTIENGESELLSCHAFT ; LENZING AG

Inventor(s): (std): EINZMANN MIRKO ; RAHBARAN SHAYDA ; SCHMIDTBAUER JOSEF ; STEINDL THOMAS ; VOGLAUER BERNHARD

Agent(s): NEMEC HARALD ET AL; FITZPATRICK CELLA HARPER AND SCINTO

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 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 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

11) Family number: 42908061 (US2009034246A)

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Title: FLASHLIGHT ASSEMBLY FROM OIL TYPE LIGHTERS

Abstract: Oil-type cigarette lighters are converted to small flashlights by utilizing the lighter insert sub-assembly to house a LED module and a battery module. These modules are connected together by an insulated wire passing through the wick hole of the insert sub-assembly and a switch that contacts the hinge side of the lighter outer case lid.

Classifications:

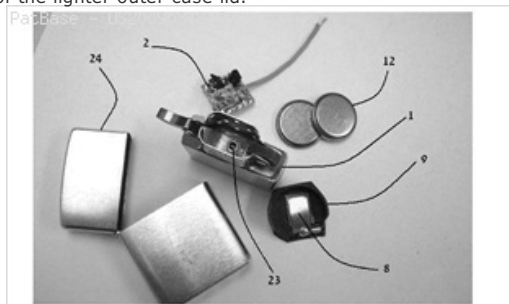
International (IPC 8-9): F21L4/00 F21L4/02 F21L4/04 F21V15/02 F21V23/00 F21V23/04 F21V33/00 F23Q2/34 (Advanced/Invention);

F21V1/00 F21Y101/02 F23Q2/36 (Advanced/Non-invention); F21L4/00 (Core/Invention)

CPC: F21V33/00 F21V23/0414 F21L2001/00 F21L4/027 F21Y2115/10 Y02W30/82 F21L4/00 F21L27/00 F21V33/0004 F23Q2/36 Y10T29/49002

European: F21L27/00 R21L4/00 R21Y101/02

US: 1/1 29/592.1 362/184 362/200 362/208 362/92



Family:

Publication number	Publication date	Application number	Application date
CN101634400 A	20100127	CN200910126769	20090202
CN101634400 B	20131023	CN200910126769	20090202
US2009034246 AA	20090205	US20080180532	20080726
US2015198297 AA	20150716	US20140154181	20140114
US9371971 BB	20160621	US20140154181	20140114

Priority:

US20070962466P 20070730 US20080180532 20080726 US20140154181 20140114

Probable Assignee: AYRES JOHN ALFRED

Assignee(s): (std): ALFRED AYRES JOHN ; AYRES JOHN ALFRED
Inventor(s): (std): AYRES JOHN ALFRED ; ALFRED AYRES JOHN
Agent(s): NU TECH AND ENGINEERING INC

12) Family number: 40807061 (US2009186189A)

© PatBase

Title: HYDROENTANGLED PRODUCT COMPRISING CELLULOSE FIBERS

Abstract: The present invention relates to a process for the production of a hydroentangled product comprising cellulose fibers, which includes the steps of (a) extruding a solution comprising cellulose dissolved in an aqueous tertiary amine-oxide through a spinneret into an air gap, thereby forming filaments (b) drawing said filaments by means of a gaseous stream (c) collecting and precipitating said filaments in order to form a web (d) bonding said web by means of a hydroentanglement process (e) contacting said filaments in the air gap with a medium which at least partially coagulates the filaments. Furthermore, the invention relates to products obtainable by said products, and uses thereof.

Classifications:

International (IPC 8-9): A47L1/15 A47L13/16 A47L13/17 B01D39/18 B08B1/00 B29D28/00 B32B3/10 B32B3/30 D01D5/06 D01D5/098 D01D5/12 D01F1/10 D01F2/00 D01F2/02 D04H1/42 D04H1/425 D04H1/4258 D04H1/46 D04H1/492 D04H1/56 D04H13/00 D04H3/005 D04H3/013 D04H3/08 D04H3/11 D04H3/16 (Advanced/Invention); D01F2/02 D04H1/42 D04H1/46 D04H1/56 (Advanced/Non-invention)
International (IPC 1-7): D04H1/42
CPC: D01D5/06 D01D5/0985 D01D5/14 D01F2/00 D04H1/4258 D04H1/4374 D04H1/4382 D04H1/492 D04H3/005 D04H3/11 D04H3/16 Y10T428/24273 Y10T428/24479 Y10T428/2481 Y10T442/68

European: D01D5/098B D01D5/14 D01F2/00 D04H1/42 D04H1/4258 D04H1/492 D04H3/005 D04H3/11 D04H3/16

US: 156/244.27 156/324 264/103 264/103S 264/132 264/154 264/187 264/203 264/210.2 264/210.6 264/210.8 264/211.12 264/211.14 264/555 28/104 428/131 428/131P 428/156 428/156S 428/196 428/196S 428/219 428/219S 442/400 442/400S



Family:

Publication number	Publication date	Application number	Application date
AT503625 A1	20071115	AT20060000728	20060428
AT503625 B1	20131015	AT20060000728	20060428
CN101432476 A	20090513	CN200780015360	20070426
CN103173938 A	20130626	CN201310121400	20070426
CN103173938 B	20161026	CN201310121400	20070426
DE602007042654 D1	20151001	DE200760042654T	20070426
EP2013390 A1	20090114	EP20070718408	20070426
EP2013390 B1	20150819	EP20070718408	20070426
EP2957667 A1	20151223	EP20150177433	20070426
ES2553182 T3	20151204	ES20070718408T	20070426
IN02276MN2008 A	20090116	IN2008MN02276	20081023
IN258350 B	20140103	IN2008MN02276	20081023
JP2009535521 T2	20091001	JP20090506859T	20070426
JP5097771 B2	20121212	JP20090506859T	20070426
KR101517453 B1	20150515	KR20087026915	20070426
KR20080111521 A	20081223	KR20087026915	20070426
PL2013390 T3	20151231	PL20070718408T	20070426
TR201511938 T4	20151021	TR20150011938T	20070426
US2009186189 AA	20090723	US20070298079	20070426
US8282877 BB	20121009	US20070298079	20070426
WO07124521 A1	20071108	WO2007AT00192	20070426

Priority:

AT20060000728 20060428 CN200780015360 20070426 WO2007AT00192 20070426
EP20070718408 20070426

Probable Assignee: LENZING AKTIENGESSELLCHAFT

Assignee(s): (std): CHEMIEFASER LENZING AG ; HARMS HAIO ; HAYHURST MALCOLM ; WHITE PAT
Assignee(s): LENZING AG ; LENZING AKTIENGESSELLCHAFT ; LENZING AKTIENGESSELLCHAFT
Inventor(s): (std): HAIO HARMS ; HARMS HAIO ; HAYHURST MALCOLM ; MALCOLM HAYHURST ; PAT WHITE ; WHITE PAT
Inventor(s): WHITE PAT SHARNFORD ; HAYHURST MALCOLM BULKINGTON
Agent(s): MUELLER BORE AND PARTNER PATENTANWALTE PARTG MBH; NEMEC HARALD ET AL; NEMEC HARALD; SCHWARZ AND PARTNER; ARIAS JUAN; DILEK ZEYBEL; FITZPATRICK CELLA HARPER AND SCINTO
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

13) Family number: 57415076 (US2014270730A)

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Title: ATOMIZER FOR AN AEROSOL DELIVERY DEVICE FORMED FROM A CONTINUOUSLY EXTENDING WIRE AND RELATED INPUT, CARTRIDGE, AND METHOD

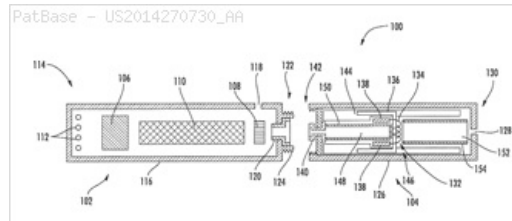
Abstract: The present disclosure relates to atomizers for an aerosol delivery device such as a smoking article. The atomizer may include a liquid transport element and a wire continuously extending along a longitudinal length thereof. The wire may define end portions, contact portions, and a heating portion. The wire may be continuously wound about the liquid transport element such that each of the portions of the wire defines coils. A related input, cartridge, and method of forming atomizers also provided.

Classifications:

International (IPC 8-9): A24B15/16 A24F A24F47/00 A61H33/12
A61M15/06 B21D53/06 F22B1/20 F22B1/28 F22B29/06 F24F6/08
H01C17/02 H01C17/04 H05B3/03 H05B3/06 (Advanced/Invention);
A24F (Subclass/Invention)

CPC: H05B3/03 A24B15/16 A24B15/167 B21D53/06 F22B1/282
H01C17/04 H01C17/02 A61M15/06 A61M2016/0039 A61M2205/3653
A61M2205/584 A61M2205/8206 A24F47/00 A24F47/008
Y10T29/49083 Y10T29/4935 A61M11/042

US: 1/1 29/592.1 29/611 29/857 29/890.03 392/394 392/395
392/397 392/404



Family:

Publication number	Publication date	Application number	Application date
■ CN105163613 A	20151216	CN201480024265	20140313
■ CN105163613 B	20190226	CN201480024265	20140313
■ CN106231932 A	20161214	CN201580020433	20150223
■ CN106231932 B	20190705	CN201580020433	20150223
■ CN109527661 A	20190329	CN201910078644	20140313
■ DE602015042919 D1	20191224	DE201560042919T	20150223
■ EP2967154 A1	20160120	EP20140720338	20140313
■ EP2967154 B1	20181017	EP20140720338	20140313
■ EP3110269 A1	20170104	EP20150708646	20150223
■ EP3110269 B1	20191204	EP20150708646	20150223
■ ES2775604 T3	20200727	ES20150708646T	20150223
■ HK1220089 A1	20170428	HK20160108322	20160715
■ HK1220089 B	20190726	HK20160108322	20160715
■ HK1232084 A1	20180105	HK20170105949	20170615
■ IN02983KN2015 A	20160701	IN2015KN02983	20150911
■ IN201637029565 A	20161111	IN201637029565	20160830
■ JP2016512116 T2	20160425	JP20160501951T	20140313
■ JP2017508458 T2	20170330	JP20160554387T	20150223
■ JP6426142 B2	20181121	JP20160501951T	20140313
■ JP6505738 B2	20190424	JP20160554387T	20150223
■ KR20150128936 A	20151118	KR20157028442	20140313
■ KR20160127781 A	20161104	KR20167026557	20150223
■ PL2967154 T3	20190430	PL20140720338T	20140313
■ PL3110269 T3	20200601	PL20150708646T	20150223
■ RU2015139070 A	20170417	RU20150139070	20140313
■ RU2015139070 A3	20180320	RU20150139070	20140313
■ RU2016134764 A	20180402	RU20160134764	20150223
■ RU2016134764 A3	20180807	RU20160134764	20150223
■ RU2018118398 A	20191118	RU20180118398	20180518
■ RU2656089 C2	20180530	RU20150139070	20140313
■ RU2697106 C2	20190812	RU20160134764	20150223
■ US2014270730 AA	20140918	US20130827994	20130314
■ US2015245659 AA	20150903	US20140194233	20140228
■ US2016143364 AA	20160526	US20160009580	20160128
■ US2018168233 AA	20180621	US20180890696	20180207
■ US9277770 BB	20160308	US20130827994	20130314
■ US9918495 BB	20180320	US20140194233	20140228
■ US10306924 BB	20190604	US20160009580	20160128
■ WO14160055 A1	20141002	WO2014US25723	20140313
■ WO15130615 A1	20150903	WO2015US17108	20150223

Priority:

US20130827994 20130314	US20140194233 20140228	CN201480024265 20140313
EP20140720338 20140313	RU20150139070 20140313	WO2014US25723 20140313
RU20160134764 20150223	EP20150708646 20150223	WO2015US17108 20150223
US20160009580 20160128	US20180890696 20180207	

Probable Assignee: RAI STRATEGIC HOLDINGS INC

Assignee(s): (std): RAI STRATEGIC HOLDINGS INC ; RAI STRETDZHIK Kholdings INK ; REYNOLDS TOBACCO CO R ; RJREYNOLDS TOBACCO CO

Assignee(s): RJ REYNOLDS TOBACCO CO ; RAI STRATEGIC HOLDINGS INC WINSTON SALEM ; R DZH REYNOLDS TOBACCO COMPANY ; R J REYNOLDS TOBACCO CO

Inventor(s): (std): ALDERMAN STEVEN LEE ; ALDERMAN STIVEN LI ; BRINKLEY PAUL A ; BRINKLI POL A ; COPPOLA PATSY ; DEPIANO DZHON ; DEPIANO JOHN ; DOOLY GRADY LANCE ; DULI GREDI LANS ; KOPPOLA PETS I ; LAINE MICHAEL ; LAJNE MAJKL ; LEJN MAJKL ; MAKLELLAN DZHEJMS UILYAM ; MCCLELLAN JAMES WILLIAM ; NOVAK III CHARLES JACOB ; NOVAK III CHARLZ DZHEJKOB ; SILVEIRA FRANK S ; SILVEIRA FRENK S ; SMIT DEVID ; SMIT DEVID DZHEJ ; SMITH DAVID ; SMITH DAVID JAY ; VOLBER

DZHON UILYAM ; WOLBER JOHN WILLIAM ; MCCLELLAN JAMES WILLIAM

Inventor(s): MCCLELLAN JAMES WILLIAM HOLLIS ; LAINE MICHAEL NEWBURYPORT ; DOOLY GRADY LANCE WINSTON SALEM ; DEPIANO JOHN BURLINGTON ; COPPOLA PATSY BEDFORD ; BRINKLEY PAUL A WINSTON SALEM ; ALDERMAN STEVEN LEE LEWISVILLE ; WOLBER JOHN WILLIAM NASHUA ; SMITH DAVID JAY NEEDHAM ; SILVEIRA FRANK S WILMINGTON ; NOVAK III CHARLES JACOB WINSTON SALEM ; NOVAK CHARLZ DZHEJKOB

Agent(s): HOEGER STELLRECHT AND PARTNER PATENTANWALTE MBB; HOEGER STELLRECHT AND PARTNER PATENTANWALTE MBB; ELZABURU SLP; CHLOE LEE AND CO; KAWAGUTI AND PARTNERS; PATENTIKA; WOMBLE CARLYLE SANDRIDGE AND RICE LLP; WOMBLE BOND DICKINSON US LLP; ORDERS CHRISTOPHER H

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

14) Family number: 52993086 (RU122254U)

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Title: DISPOSABLE ELECTRONIC CIGARETTE (Machine translation)

Abstract: Source: RU122254U **Machine translation:** Disposable electronic cigarette, comprising a housing and a tubular body placed in the control unit with a pressure sensor and a control chip, the power supply container comprising a liquid nicotine, closed first and second covers to form a chamber between the lid heater and heater, disposed in the chamber with a filament wound on the wick, characterized in that the first container lid are made at least two holes of small diameter, a cigarette provided with an absorbent pad placed in the heater chamber and closing the above-mentioned holes, the ends of the wick contact with the surface of the absorbent pad.

Classifications:

International (IPC 8-9): A24F47/00 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
RU122254 U1	20121127	RU20120136727U	20120828

Priority:

RU20120136727U 20120828

Probable Assignee: ANTIPOV ANDRIAN N

Assignee(s): ANTIPOV ANDRIAN N ; NAGORNO DENYS ; SKARNOVICH VICTOR L ; VALENTIN VLADIMIROVICH ILYIN

15) Family number: 61742091 (US2016054279A)

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Title: METHOD FOR DETECTING SECOND AND THIRDHAND SMOKE

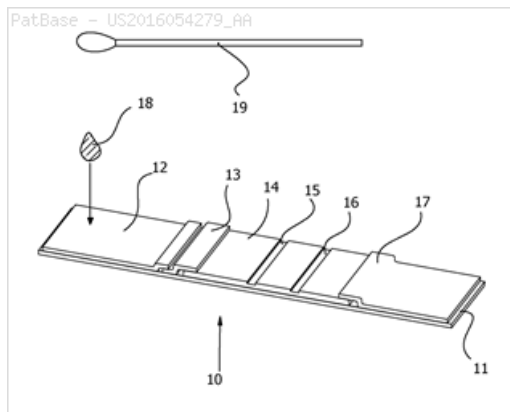
Abstract: A novel method for testing if smoking has occurred within a space. Smoking is determined to have happened by testing for and confirming the presence of nicotine using a lateral flow test strip. The nicotine may be captured from secondhand smoke by exposing the condensing pad of the lateral flow tester to air within the space prior to activating the test strip. The nicotine may also be captured as part of thirdhand smoke residue on a surface within the space. A prior art commercially available lateral flow test strip used to test for the presence of cotinine within a biological sample, is used in novel ways for detecting for the past presence of nicotine smoke within a space. Improvements to the test apparatus are also disclosed.

Classifications:

International (IPC 8-9): G01N33/00 (Advanced/Invention)

CPC: G01N33/0036

US: 73/28.01



Family:

Publication number	Publication date	Application number	Application date
US2016054279 AA	20160225	US20140466156	20140822

Priority:

US20140466156 20140822

Probable Assignee: CAFERRO THOMAS

Assignee(s): (std): CAFERRO THOMAS ; SCHLOSSER JAMES ; SCHLOSSER KAREN

Inventor(s): (std): SCHLOSSER KAREN ; CAFERRO THOMAS ; SCHLOSSER JAMES