

PatBase - Search results 08 July 2015

Search query (3): [SP]: 1. a system for producing a secure document using toner-based imaging, the system comprising: a substrate having a first surface and a second surface a toner comprising a colorant and a dye, the toner applied to the first surface of the substrate and a coating comprising fluorescent material, an oil, a resin, an anti-misting agent and an anti-offsetting agent applied to the first or second surface using offset printing, wherein the dye quenches a portion of the coating comprising fluorescent material to produce a reverse negative image of an image printed with the toner, when exposed to ultraviolet radiation. 2. the system of claim 1, wherein the oil is a single component or a combination of one or more oils, plasticizers, and liquid polymers. 3. the system of claim 1, wherein the resin is a resin yielding high viscosity, and low misting properties. 4. the system of claim 1, wherein the anti-misting agent comprises a compound selected from the group consisting of bentonite clay, silica, kaolin, titanium dioxide, and any combination thereof. 5. the system of claim 1, wherein the anti-offsetting agent comprises a compound having a size between about 0.2 microns and about 25 microns. 6. the system of claim 1, wherein the anti-offsetting agent comprises a compound selected from the group consisting of silica, pea starch, wheat starch, and any combination thereof. 7. the system of claim 1, wherein the anti-offsetting agent comprises a synthetic wax, a natural wax, or a combination thereof. 8. the system of claim 7, wherein the synthetic wax comprises a polyethylene, fluorocarbon wax, polypropylene, or any combination thereof. 9. the system of claim 1, wherein a composition for coating comprising fluorescent comprises about 0.5 percent to about 4 percent fluorescent material. 10. a system for producing a secure document using toner-based imaging, the system comprising: a substrate having a first surface and a second surface a toner comprising a colorant and a dye, the toner applied to the first surface of the substrate a coating comprising fluorescent material applied to the first or second surface using offset printing and a secondary migration-enhancing coating containing a high viscosity oil with a low surface tension and an anti-misting agent, wherein the dye quenches a portion of the coating comprising fluorescent material to produce a reverse negative image of an image printed with the toner, when exposed to ultraviolet radiation. 11. the system of claim 10, wherein the anti-misting agent is selected from the group consisting of bentonite clay, silica, kaolin, titanium dioxide, and any combination thereof. 12. the system of claim 10, wherein the secondary migration-enhancing coating comprises a combination of silicone oils having different viscosities, wherein the final viscosity of the composition is suitable for lithographic offset printing.

Results: 10

Yenny Campos

Search history

- Search 1: TAC=(fluorescent material and offset printing) (Results 18)
- Search 2: TAC=(fluorescent material and offset printing and secure document) (Results 1)
- Search 3: [SP]: 1. a system for producing a secure document using toner-based imaging, the system comprising: a substrate having a first surface and a second surface a toner comprising a colorant and a dye, the toner applied to the first surface of the substrate and a coating comprising fluorescent material, an oil, a resin, an anti-misting agent and an anti-offsetting agent applied to the first or second surface using offset printing, wherein the dye quenches a portion of the coating comprising fluorescent material to produce a reverse negative image of an image printed with the toner, when exposed to ultraviolet radiation. 2. the system of claim 1, wherein the oil is a single component or a combination of one or more oils, plasticizers, and liquid polymers. 3. the system of claim 1, wherein the resin is a resin yielding high viscosity, and low misting properties. 4. the system of claim 1, wherein the anti-misting agent comprises a compound selected from the group consisting of bentonite clay, silica, kaolin, titanium dioxide, and any combination thereof. 5. the system of claim 1, wherein the anti-offsetting agent comprises a compound having a size between about 0.2 microns and about 25 microns. 6. the system of claim 1, wherein the anti-offsetting agent comprises a compound selected from the group consisting of silica, pea starch, wheat starch, and any combination thereof. 7. the system of claim 1, wherein the anti-offsetting agent comprises a synthetic wax, a natural wax, or a combination thereof. 8. the system of claim 7, wherein the synthetic wax comprises a polyethylene, fluorocarbon wax, polypropylene, or any combination thereof. 9. the system of claim 1, wherein a composition for coating comprising fluorescent comprises about 0.5 percent to about 4 percent fluorescent material. 10. a system for producing a secure document using toner-based imaging, the system comprising: a substrate having a first surface and a second surface a toner comprising a colorant and a dye, the toner applied to the first surface of the substrate a coating comprising fluorescent material applied to the first or second surface using offset printing and a secondary migration-enhancing coating containing a high viscosity oil with a low surface tension and an anti-misting agent, wherein the dye quenches a portion of the coating comprising fluorescent material to produce a reverse negative image of an image printed with the toner, when exposed to ultraviolet radiation. 11. the system of claim 10, wherein the anti-misting agent is selected from the group consisting of bentonite clay, silica, kaolin, titanium dioxide, and any combination thereof. 12. the system of claim 10, wherein the secondary migration-enhancing coating comprises a combination of silicone oils having different viscosities, wherein the final viscosity of the composition is suitable for lithographic offset printing. (Results 10)

Title: Developer for developing electrostatic images

Abstract: Source: US5066558A A developer for developing electrostatic images, comprising: 100 wt. parts of a toner comprising toner particles, and 0.01-3 wt. parts of silica powder which has a particle size of 0.006-0.2 micron and is not fixed to the surfaces of the toner particles; the toner particles comprising 100 wt. parts of colored resinous particles (A) and 0.05-5 wt. parts of silica powder comprising silica particles which have a particle size of 0.002-0.2 micron and have been embedded in the surfaces of the colored resinous particles by mechanical impact means.

Classifications:

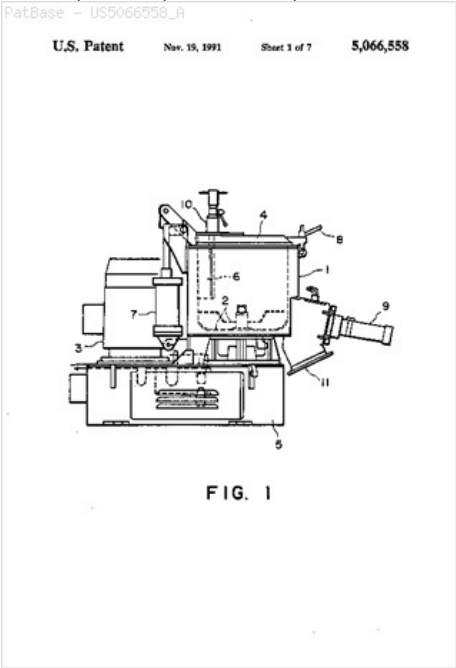
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International (IPC 1-7): G03G9/08 G03G9/087

CPC: G03G9/09725 G03G9/097

European: G03G9/097 G03G9/097B3

US: 430/108.24 430/108.7 430/109 430/110 430/114



Family:

Publication number	Publication date	Application number	Application date
JP2103624 C3	19961022	JP19890255514	19890929
JP2167561 A2	19900627	JP19890255514	19890929
JP8012478 B4	19960207	JP19890255514	19890929
US5066558 A	19911119	US19890414297	19890929

Priority:

JP19880246303 19880930 JP19890255514 19890929

Probable Assignee: CANON KK

Assignee(s): (std): CANON KK

Assignee(s): CANON 3 30 2 SHIMOMARUKO OHTA KU TOKYO JAPAN A COR ; CANON INC ; CANON KABUSHIKI KAISHA

Inventor(s): (std): HIGAKE NORIO ; HIGAKE NORIO ; KITAMORI NAOTO

Title: REPULPABLE WAX

Abstract: Source: US2003152707A Waxes prepared from hydrogenated plant oils, such as palm and soybean, are used to render cellulosic materials resistant to water. Unlike cellulosic materials rendered water resistant with waxes obtained using petroleum-derived or synthetic waxes, the water resistant cellulosic materials prepared using this composition are recyclable using conventional paper recycling methods; the composition is dispersible in warm water solutions. Such water resistant materials are characterized by enhanced moisture barrier properties. The compositions have a low iodine value (between 2-5), and melting points between approximately 120-165 degrees F. (Mettler Drop Point). The wax comprises a triglyceride whose fatty acids are predominantly stearic acid (C18).. The composition is used as an additive in the manufacture of wax coated boxes and adhesive compounds used in boxboard packaging and manufacturing operations.

Classifications:

International (IPC 8-9): A61L15/62 B05D3/00 B05D3/02 B05D7/00 B32B21/04 B32B23/08 B32B27/06 B32B27/10 B32B29/00 C07C67/08 C08J3/00 C08K3/20 C08K5/09 C08K5/10 C08K5/11 C08L31/00 C08L33/00 C08L91/00 C08L91/06 C09D11/10 C09D11/12 C09J11/00 C09J123/04 C09J131/04 C09J191/06 C09J193/00 D06M13/00 D06M15/263 D21H17/60 D21H19/18 D21H19/46

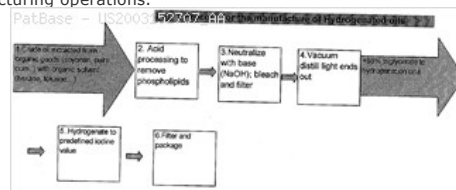
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International (IPC 1-7): B05D1/00 B05D3/00 B05D3/02 B65B33/00 C03C17/00 C08L91/00 C09D11/00 C09D11/12 C09D191/00 C09D191/06 C09D201/00 C09J11/00 C09J123/04 C09J131/04 C09J191/06 C09J193/00 D21H17/60 D21H19/18 D21H21/16

CPC: Y10T428/3188 Y10T428/3189 Y10T428/3198 Y10T428/3199 D21H19/18 C09D11/12 D21H17/60 D21H19/46

European: C09D11/12 D21H17/60 D21H19/18 D21H19/46

US: 106/22 106/220 106/222 106/224 106/229 106/244 106/245 106/252 106/265 106/270 106/31.61 162/136 427/155 427/372.2 427/384 427/385.5 427/389.9 427/391 427/392 427/393 427/393.4 428/507 428/511 428/537.1 428/537.5 523/160 523/161 523/161S 523/275 523/310 523/524 524/27 524/270 524/274 524/275 524/276 524/306 524/310 524/313 524/556

**Family:**

Publication number	Publication date	Application number	Application date
AT435941 E	20090715	AT20030703680T	20030102
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CA2472159 AA	20040629	CA20032472159	20030102
CA2542876 AA	20060418	CA20042542876	20041026
CA2542876 C	20120207	CA20042542876	20041026
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DE602004005746 T2	20070816	DE200460005746T	20041026
DE60328262 D1	20090820	DE20036028262	20030102
EP1461496 A1	20040929	EP20030703680	20030102
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EP1687382 A2	20060809	EP20040810044	20041026
EP1687382 B1	20070404	EP20040810044	20041026
ES2328344 T3	20091112	ES20030703680T	20030102
JP2005515306 T2	20050526	JP20030558268T	20030102
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JP4773358 B2	20110914	JP20060536936	20041026
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US2004076745 AA	20040422	US20030669357	20030925
US2005131103 AA	20050616	US20040973606	20041026
US6811824 BB	20041102	US20020137689	20020503
US8138250 BB	20120320	US20040973606	20041026
WO03057983 A1	20030717	WO2003US00121	20030102
WO05042655 A2	20050512	WO2004US35605	20041026
WO05042655 A3	20050714	WO2004US35605	20041026

Priority:

US20020345915P 20020104	US20020137689 20020503	WO2003US00121 20030102
US20030669357 20030925	US20040973606 20041026	US20030514790P 20031027
WO2004US35605 20041026		

Probable Assignee: HRD CORP**Assignee(s):** (std): BORSINGER GREGORY ; H R D CORP ; HASSAN ABBAS ; HASSAN AZIZ ; HRD CORP ; MARCUS OIL AND CHEMICAL CORP**Assignee(s):** MARCUS OIL AND CHEMICAL CORP DIVISION OF HRD CORP**Inventor(s):** (std): ABBAS HASSAN ; AZIZ HASSAN ; BORSINGER GREGORY ; GREGORY BORSINGER ; HASSAN ABBAS ; HASSAN AZIZ**Agent(s):** KNOBLAUCH ANDREAS; THOMAS L ADAMS; PORTER HEDGES LLP; TIMOTHY S**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 UZ VC VN YU ZA ZM ZW

Abstract: Source: US2003175609A Disclosed is a toner comprising particles of a polyester resin, an optional colorant, and polypyrrole, wherein said toner particles are prepared by an emulsion aggregation process. Another embodiment of the present invention is directed to a process which comprises (a) generating an electrostatic latent image on an imaging member, and (b) developing the latent image by contacting the imaging member with charged toner particles comprising a polyester resin, an optional colorant, and polypyrrole, wherein said toner particles are prepared by an emulsion aggregation process.

International (IPC 8-9): G03G9/08 G03G9/087 G03G9/097 (Advanced/Invention)
International (IPC 1-7): G03G13/01 G03G13/06 G03G15/01 G03G15/20 G03G9/093
 G03G9/097

G03G9/08797 G03G9/09741 G03G9/09758

G03G9/08D G03G9/097D1 G03G9/097D3

430/110.200S 430/120 430/123.2 430/123.200P 430/123.5 430/123.500S 430/123.56

430/137.11 430/137.14 430/137.140S 430/45



Publication number	Publication date	Application number	Application date
US2003175609 AA	20030918	US20030350534	20030123
US2004152007 AA	20040805	US20040762155	20040121
US6673501 BA	20040106	US20000723911	20001128
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Assignee(s): (std): XEROX CORP

Assignee(s): BANK ONE NA ADMINISTRATIVE AGENT AS : JPMORGAN CHASE BANK COLLATERAL AGENT AS

Inventor(s): (std): COMBES JAMES R : MCDougall MARIA N V : MOFFAT KAREN A

Inventor(s): MCDOUGALL MARIA NV

Title: SYSTEM FOR PRODUCING SECURE TONER-BASED IMAGES AND METHODS OF FORMING AND USING THE SAME

Abstract: Source: US2004005441A A system and method for printing documents that are difficult to forge and that are easy to visually verify are disclosed. The system includes a colorant for printing an image on a surface of a document and a dye for forming a latent version of the image underneath the surface and a substrate that includes a migration agent for facilitating the migration of the dye through at least a portion of the substrate. The migration-enhancing agent may be coated onto a portion of the substrate or embedded within the substrate.

Classifications:

International (IPC 8-9): B42D15/10 G03C1/52 G03C3/00 G03C9/00 G03G13/20 G03G15/00 G03G15/06 G03G15/22 G03G21/04 G03G5/00 G03G7/00 G03G9/00 G03G9/08 G03G9/083 G03G9/087 G03G9/09 G03G9/097

G03G9/10 (Advanced/Invention);

B42D15/10 G03C1/52 G03G15/00 G03G9/08 G03G9/087 (Core/Invention);

G03C G03G (Subclass/Invention)

International (IPC 1-7): B32B27/00 B32B3/00 B32B7/14 B32B9/00 B41M0/00

G03C1/52 G03C3/00 G03G13/20 G03G15/06 G03G21/04 G03G5/00 G03G7/00

G03G9/00 G03G9/08 G03G9/083 G03G9/087 G03G9/09 G03G9/097 G03G9/10

CPC: G03G9/0831 G03G9/0906 G03G21/043 G03G9/081 G03G9/0817 G03G9/08708 G03G9/08755 G03G9/091 G03G9/0912 G03G9/0914

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G03G9/097

European: G03G21/04P G03G9/083 G03G9/083B G03G9/087B2B G03G9/087D4 G03G9/087F3 G03G9/087H3 G03G9/087H5 G03G9/087H6

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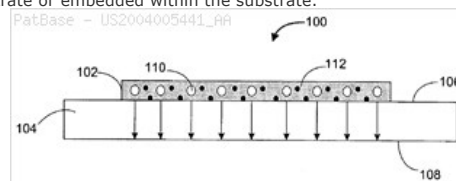
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430/108.1 430/108.100S 430/108.11 430/108.11P 430/108.2 430/108.200P 430/108.21 430/108.210S 430/108.23 430/108.230S 430/108.6

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430/137.1 430/137.100S 430/137.18 430/137.180S 430/37.18 430/45.31 430/97 430/97P

**Family:**

Publication number	Publication date	Application number	Application date
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CA2484698 AA	20041103	CA20032484698	20030515
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CN102854762 A	20130102	CN201210033939	20051017
CR9011 A	20081017	CR20070009011	20070323
DK1504310 T3	20130408	DK20030731208T	20030515
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EP1504311 A1	20050209	EP20030736624	20030515
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ZA200801917 A	20091028	ZA20080001917	20080229
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Priority:

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Probable Assignee: TROY GROUP INC

Assignee(s): (std): BARNUM LINDA M ; COOPER JOHN ; GILSON CARRIE A ; HEILMAN KEVIN L ; LITTLETON BRUCE ; NASSER NABIL ; TROY GROUP INC ; RILEY MICHAEL R

Assignee(s): TORY GROUP INC

Inventor(s): (std): COOPER JOHN ; HEILMAN KEVIN L ; HEILMAN KEVIN L RILEY MICHAEL ; JOHN COOPER ; KEVIN HEILMAN ; KEVIN L HEILMAN ; MICHAEL R RILEY ; NABIL NASSER ; NASSER NABIL ; RILEY MICHAEL R ; RILEY MICHEL R ; LITTLETON BRUCE ; GILSON CARRIE A ; BARNUM LINDA M

Inventor(s): HELLMAN KEVIN L ; RILEY MICHAEL ; MICHEL R RILEY ; LINDA M BARNUM ; GILSON CARRIE ; HEILMAN KEVIN ; BARNUM LINDA ; BRUCE LITTLETON ; CARRIE A GILSON

Agent(s): MCCARTHY DENIS ALEXIS; MCCARTHY DENIS ALEXIS ET AL; VIERING JENTSCHURA AND PARTNER; SNELL AND WILMER LLP; SNELL AND WILMER LLP (OC); GESS ALBIN H

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

Agent(s): JORDAN AND HAMBURG LLP

Title: LOW-FLUORESCENT, CHEMICALLY DURABLE HYDROPHOBIC PATTERNED SUBSTRATES FOR THE ATTACHMENT OF BIOMOLECULES

Abstract: Source: US2005064209A The invention relates to hydrophobic patterned, low self-fluorescent substrates for attaching biomolecules and a method of making them. The patterned material will not interfere with end use assay analysis because the patterning composition is manufactured so to have very low self-fluorescence in the spectral regions typically used for microarraying applications. Further, the patterning compositions are chemically and physically durable and will not be deleteriously affected by typical chemical or physical processes utilized for cleaning, coating or assaying processes. In a preferred embodiment, the patterned silicone composition is applied to the substrate by screen-printing.

Classifications:

International (IPC 8-9): B01J19/00 B01L3/00 B05D5/12 B32B5/16 B32B9/04

C03C17/30 C03C17/34 (Advanced/Invention);

B01J19/00 B01L3/00 B05D5/12 B32B5/16 B32B9/04 C03C17/28

C03C17/34 (Core/Invention)

International (IPC 1-7): B05D5/12 B32B5/16 B32B9/04

CPC: B82Y30/00 B01J19/0046 B01J2219/00533 B01J2219/00554 B01J2219/00576
B01J2219/00596 B01J2219/00605 B01J2219/00612 B01J2219/00617 B01J2219/00621
B01J2219/00637 B01J2219/00659 B01J2219/0072 B01L3/502707 B01L3/5085
B01L3/5088 B01L2200/12 B01L2300/0816 B01L2300/0819 B01L2300/089 B01L2300/165
B01L2300/166 C03C17/30 C03C17/3405 C03C2217/445 C03C2217/478 C03C2217/75
C03C2217/76 C03C2217/77 Y10T428/25 Y10T428/259 Y10T428/31649 Y10T428/31663

European: B01J19/00C B01L3/00C2D B01L3/00C2S B01L3/00C6M2 B01L3/5027A

B01L3/5085 B01L3/5088 B82Y30/00 C03C17/30 C03C17/34B L01J219/00C10B

L01J219/00C2L8F L01J219/00C2N14D L01J219/00C2N8 L01J219/00C4H

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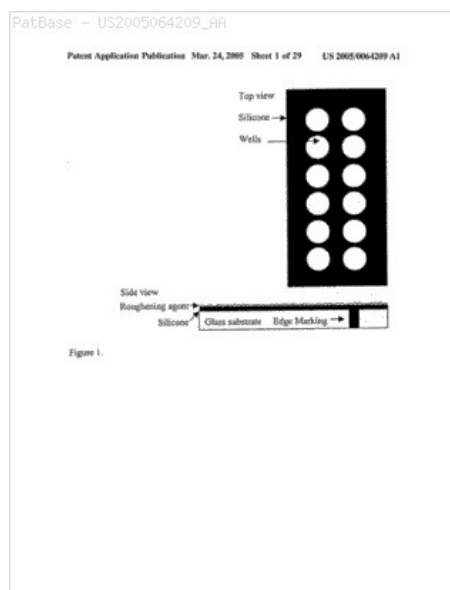
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M03C217/750 M03C217/760 M03C217/770

US: 428/323 428/323S 428/331 428/331S 428/426 428/426S 428/442 428/442S

428/447 428/447P 428/448 428/448S



Family:

Publication number	Publication date	Application number	Application date
US2005064209 AA	20050324	US20040778332	20040217

Priority:

US20040778332 20040217

Probable Assignee: HAINES DANIEL

Assignee(s): (std): HAINES DANIEL ; KNOEDLER CHRISTINA

Inventor(s): (std): HAINES DANIEL ; KNOEDLER CHRISTINA

Title: METHOD FOR PREPARING TAMPERPROOF ID DOCUMENTS

Abstract: Source: US2007092703A A method for preparing a tamperproof ID document comprising in order the steps of a) providing an ID document having at least one image on at least one outermost surface of said ID document; b) printing or coating a curable liquid on at least one of said outermost surfaces of said ID document thereby forming an outermost layer on said printed or coated outermost surface at least partially covering said at least one image; and c) curing said outermost layer; wherein said curable liquid comprises a polymerizable and/or a polymeric abherent agent and said printed or coated outermost surface is the surface of a layer or foil exclusive of porous pigment. Also disclosed is an ID document wherein the surface of an outermost layer at least partially covering an image on the ID document has a surface energy of less than 28 mN/m; and the use of an abherent agent-comprising curable composition to provide ID-documents with a substantially non-printable and substantially non-laminatable abhesive surface.

Classifications:
International (IPC 8-9): B41M3/14 B41M5/00 B41M7/00 B42D15/10 B44C1/17 C09D11/00 C09D11/10 G03G7/00 (Advanced/Invention); B41M3/14 B41M5/00 B41M7/00 B42D15/10 C09D11/00 C09D11/10 (Core/Invention)
CPC: B41M7/0045 B41M7/0054 B41M7/0081 C09D4/00 B41M3/14 B42D2035/06 C09D11/101 C09D11/30 B42D25/00 Y10T428/24802 Y10T428/31511 Y10T428/31663
European: B41M3/14 B41M7/00C B41M7/00R B42D15/10 C09D11/101 C09D11/30 C09D4/00 L42D35/06
US: 428/195.1 428/195.100P 428/413 428/447 428/913.3

Family:

Publication number	Publication date	Application number	Application date
EP1940981 A1	20080709	EP20060807107	20061010
JP2009514694 T2	20090409	JP20080536017T	20061010
US2007092703 AA	20070426	US20060582262	20061017
US8039093 BB	20111018	US20060582262	20061017
WO07045578 A1	20070426	WO2006EP67221	20061010

Priority:
EP20050109833 20051021 US20050736063P 20051110 EP20060807107 20061010
US20060582262 20061017 WO2006EP67221 20061010

Probable Assignee: AGFA GEVAERT
Assignee(s): (std): AGFA GEVAERT ; AGFA GEVAERT NV ; DAEMS EDDIE ; LEENDERS LUC

Assignee(s): AGFA GEVAERT N V

Inventor(s): (std): DAEMS EDDIE ; LEENDERS LUC

Agent(s): TERRELL DAVID RICHARD; LEYDIG VOIT AND MAYER LTD

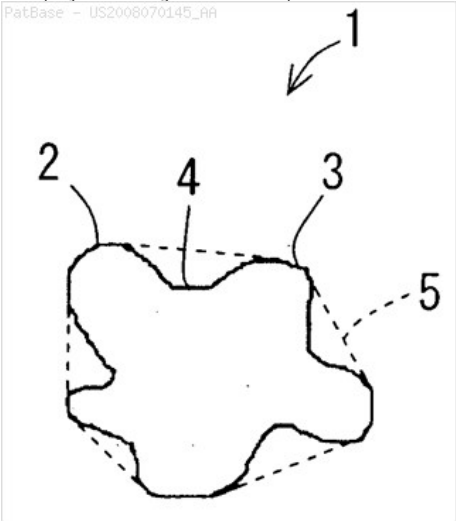
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO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

Title: TONER, DEVELOPER, AND IMAGE FORMING APPARATUS

Abstract: Source: US2008070145A There is provided a toner which exhibits a quick rise of charging and excellent cleaning property and which can form high-quality images having high definition and high density. A toner envelope degree of the toner falls in a range of from 2.0 to 3.0, which degree is obtained by calculation of $[(L1-L2)/L2] \times 100$ wherein L1 represents a circumference length of a projection image of toner particles containing binder resin and a colorant, and L2 represents a length of envelope of the projection image of the toner particles.

Classifications:

International (IPC 8-9): G03G9/08 G03G9/09 G03G9/10 (Advanced/Invention);
G03G9/08 G03G9/09 G03G9/10 (Core/Invention)
CPC: G03G9/0819 G03G9/0827 G03G9/10 G03G9/107 G03G9/113
European: G03G9/08D G03G9/08T G03G9/10 G03G9/107 G03G9/113
US: 430/110.4 430/110.400



Family:

Publication number	Publication date	Application number	Application date
CN101144995 A	20080319	CN200710153702	20070914
CN101144995 B	20120125	CN200710153702	20070914
JP2008070663 A2	20080327	JP20060250116	20060914
JP4205124 B2	20090107	JP20060250116	20060914
US2008070145 AA	20080320	US20070898784	20070914

Priority:

JP20060250116 20060914

Probable Assignee: SHARP KK

Assignee(s): (std): ONDA HIROSHI ; SHARP KK ; SUZUKI MASAO ; YAMAMOTO YOSHINORI

Assignee(s): SHARP CORP ; SHARP K K ; SHARP KABUSHIKI KAISHA

Inventor(s): (std): HIROSHI ONDA ; MASAO SUZUKI ; ONDA HIROSHI ; ONDA YUTAKA ; SUZUKI MASAO ; SUZUKI MASARO ; YAMAMOTO YOSHINORI ; YOSHINORI YAMAMOTO

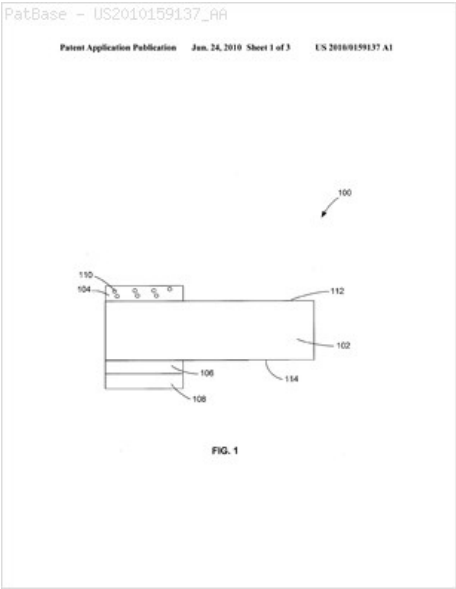
Agent(s): NIXON AND VANDERHYE PC

Title: COATING COMPOSITION, SYSTEM INCLUDING THE COATING COMPOSITION, AND METHOD FOR SECURE IMAGES

Abstract: Source: US2010159137A A coating composition, system, and method for printing documents that are difficult to chemically or physically forge and that are easy to visually verify are disclosed. The system includes a substrate, a toner, including a colorant and a dye, a primary migration-enhancing coating applied using an offset printing process and optionally a secondary migration-enhancing coating applied using an offset printing process. An image formed using the toner of the invention is readily verified by comparing a colorant-formed image and a dye-formed image. In addition, if a solvent is used in an attempt to alter the printed image on the substrate, the dye migrates or diffuses to indicate tampering with the document.

Classifications:

International (IPC 8-9): B05D5/06 B32B7/14 C08K3/22 C08K3/34 C08K3/36 G03G7/00 G03G9/09 (Advanced/Invention); B05D5/06 B32B7/14 C08K3/00 (Core/Invention)
CPC: G03G7/0013 G03G7/002 G03G9/0906 G03G9/0926
US: 427/256 427/256P 524/430 524/430S 524/445 524/445S 524/447 524/447S



Family:

Publication number	Publication date	Application number	Application date
AU2009335780 AA	20100715	AU20090335780	20091217
AU2009335780 BB	20131128	AU20090335780	20091217
CO6400126 A2	20120315	CO20110076912	20110620
EP2358524 A1	20110824	EP20090837928	20091217
EP2358524 A4	20130501	EP20090837928	20091217
HK1158579 A3	20120720	HK20110113060	20111201
MX2011006657 A1	20110712	MX20110006657	20110617
PE05252012 A1	20120505	PE20110001235	20091217
US2010159137 AA	20100624	US20090543438	20090818
WO10080520 A1	20100715	WO2009US68536	20091217

Priority:
US20080139510P 20081219 US20090543438 20090818 WO2009US68536 20091217

Probable Assignee: TROY GROUP INC

Assignee(s): (std): HEILMAN KEVIN L ; HOEFS EUGENE ; RILEY MICHAEL R ; TROY GROUP INC

Inventor(s): (std): EUGENE HOEFS ; HEILMAN KEVIN L ; HOEFS EUGENE ; RILEY MICHAEL R

Inventor(s): KEVIN L HEILMAN ; MICHAEL R RILEY

Agent(s): VIERING JENTSCHURA AND PARTNER; SNELL AND WILMER LLP (OC); SNELL AND WILMER LLP; GESS ALBIN H

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

Title: COATING COMPOSITION INCLUDING FLUORESCENT MATERIAL FOR PRODUCING SECURE IMAGES

Abstract: Source: US2012171603A A coating composition, system, and method for printing documents that are difficult to chemically or physically forge and that are easy to visually verify are disclosed. The system includes a substrate, a toner, including a colorant and a dye, a coating including fluorescent material, e.g., a primary migration-enhancing coating, applied using an offset printing process and optionally a secondary migration-enhancing coating applied using an offset printing process. An image formed using the toner of the invention is readily verified by comparing a colorant-formed image and a dye-formed image and/or to a reverse negative imaged formed by the dye quenching the fluorescent material. In addition, if a solvent is used in an attempt to alter the printed image on the substrate, the dye migrates or diffuses to indicate tampering with the document.

Classifications:

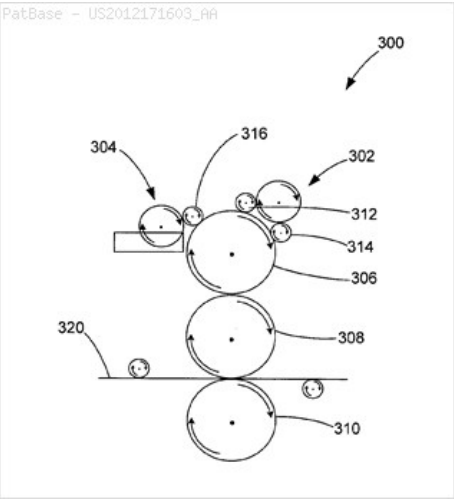
International (IPC 8-9): B05D5/06 B41F11/02 B41F23/00 B41L23/00 B41M3/14 B41M5/00 B41M5/52 B44F1/12 C09D5/22 C09K11/06 G03G13/00 G03G13/08 G03G7/00 G03G8/00 G03G9/08 G03G9/16 (Advanced/Invention)

International (IPC 1-7): G03G13/00

CPC: B41M5/52 B41M5/5254 B41M5/5218 G03G15/6573 G03G15/6582 G03G21/043 G03G2215/00299 G03G2215/00801 Y10T428/24802

European: G03G15/65M6 G03G15/65N G03G21/04P S03G215/00F2H S03G215/00G4C

US: 252/301.35 252/301.350S 428/195.1 430/105 430/105P 430/126.1 430/126.100S



Family:

Publication number	Publication date	Application number	Application date
AR078708 AA	20111130	AR2010P103835	20101020
AU2010308318 AA	20110428	AU20100308318	20101018
AU2010308318 BB	20130411	AU20100308318	20101018
CA2774431 AA	20110428	CA20102774431	20101018
CN102713764 A	20121003	CN201080047429	20101018
CO6521346 A2	20120917	CO20120051593	20120327
CR20120118 A	20120528	CR20120000118	20120313
DOP20120116 A	20140615	DO20120000116	20120419
EP2491460 A1	20120829	EP20100825475	20101018
IN00720MN2012 A	20120831	IN2012MN00720	20120321
MX2012004153 A1	20120508	MX20120004153	20120409
NZ598587 A	20130328	NZ20100598587	20101018
PE14102012 A1	20121020	PE20120000357	20101018
US2012171603 AA	20120705	US20100395408	20101018
US8747997 BB	20140610	US20100395408	20101018
WO11049876 A1	20110428	WO2010US53068	20101018

Priority:

US20090253471P 20091020 WO2010US53068 20101018 US20100395408 20101018

Probable Assignee: TROY GROUP INC

Assignee(s): (std): HEILMAN KEVIN L ; HOEFS EUGENE ; RILEY MICHAEL R ; TROY GROUP INC

Inventor(s): (std): EUGENE HOEFS ; HEILMAN KEVIN L ; HOEFS EUGENE ; KEVIN L HEILMAN ; MICHAEL R RILEY ; RILEY MICHAEL R

Inventor(s): KEVIN HEILMAN

Agent(s): VIERING JENTSCHURA AND PARTNER; GESS ALBIN H

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