



151

Industria y Comercio

SUPERINTENDENCIA

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO
INVENTARIO

Delegatura de propiedad Industrial

División de Nuevas Creaciones

PCT

SOLICITUD

PATENTE DE INVENCION

08-133318

21. EXPEDIENTE No.

54. TÍTULO RECUBRIMIENTO CON UNA IMAGEN ORIENTADA EN UN SUSTRATO TRANSPARENTE.

51. CLASIFICACIÓN INTERNACIONAL B42D 15/10

71. SOLICITANTE SICPA Holding S.A.

DOMICILIO PRILLY, SUIZA

74. APODERADO DILIA RODRIGUEZ D'ALEMAN

22. BOGOTÁ, D. C.,



No. 08-133318- -00000-0000

Fecha: 2008-12-16 14:48:08 Dep: 2020 NUECREACION
Ira. 11 PATENTEIYII Eve: 379 FASENACIONALII
Act. 411 PRESENTACION Folios: 77

**FORMULARIO ÚNICO DE SOLICITUD DE PATENTE
PCT
ENTRADA EN FASE NACIONAL**

SOLICITUD DE:

1

☒

Patente de Invención

☐

Patente de Modelo de Utilidad

☐

Capítulo I.

☒

Capítulo II.

2

**SOLICITANTE
(71)**

Nombre: **SICPA Holding S.A.**

Dirección: Avenue de Florissant 41, 1008
Prilly, Suiza.

Nacionalidad o domicilio: Prilly, Suiza

Lugar de Constitución: Suiza

Teléfono:

Fax:

E-mail

IDENTIFICACIÓN

C.C.

☐

NIT

☐

C.E.

☐

Otro

☐

Número

3

**REPRESENTANTE
O APODERADO
(74)**

Nombre: **DILIA MARÍA RODRÍGUEZ
D'ALEMAN**

Dirección: Carrera 11 No. 86-53, piso 6

Teléfono: 6 181088 Fax: 6350824

E-mail: clarkemodet@clarkemodet.com.co

IDENTIFICACIÓN

C.C.

☒

NIT

☐

C.E.

☐

Otro

☐

Número 41.654.882
TP 20824 CSJ

4

**INVENTOR (ES)
(72)**

Nombre: **VER HOJA ANEXA**

Dirección:

Nacionalidad o domicilio:

5 **PCT (86)**

Solicitud Internacional No. PCT/EP2007/056863 Fecha 6 de julio de 2007

Publicación Internacional No. WO 2008/009569 A3 Fecha 24 de enero de 2008

6 **TÍTULO (54)** RECUBRIMIENTO CON UNA IMAGEN ORIENTADA EN UN SUSTRATO
TRANSPARENTE.

7 **Clasificación Internacional (51)** B42D 15/10

8 **Prioridad**

SI

☒

NO

☐

(33) País de Origen

EUROPA

(32) Fecha

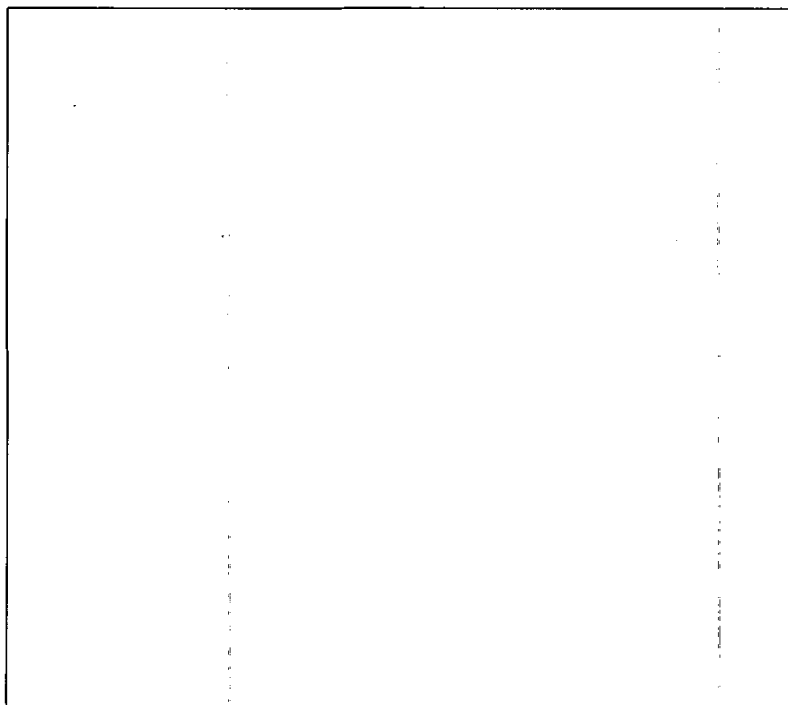
19 de julio de 2006

(31) Número de Solicitud

06117451.2

9 **Comprobante de pago No.** 08 - 96,117 **Fecha** 12 de diciembre de 2008

- ☐ Comprobante de pago de la tasa de presentación de la solicitud
- ☐ Documento que acredite la existencia y representación legal cuando el solicitante sea persona jurídica
- ☐ Poderes si fuere el caso
- ☐ Documento de cesión del inventor al solicitante o a su causante
- ☐ Declaraciones
- ☐ Copia de la solicitud internacional. (Resumen, descripción, reivindicaciones, dibujos)
- ☐ Traducción de la solicitud internacional al castellano. (Resumen, descripción, reivindicaciones, dibujos)
- ☐ Copia del examen preliminar internacional efectuado por la Autoridad Internacional de Examen Preliminar (IPEA).
- ☐ Traducción del examen preliminar internacional efectuado por la IPEA
- ☐ De ser el caso copia de contrato de acceso.
- ☐ De ser el caso, documento que acredite la licencia o autorización de uso de conocimientos tradicionales de las comunidades indígenas
- ☐ De ser el caso, certificado de depósito del material biológico
- ☐ Arte final 12 X 12 .
- ☐ De ser el caso, información sobre otras solicitudes de patente o títulos obtenidos en el extranjero por el mismo titular o su causante, relacionadas parcial o totalmente con la invención de esta solicitud.
- ☐ De ser el caso, modificaciones efectuadas a la solicitud internacional
- ☐ Otros *Notificaciones de cambios de domicilios de los inventores. * Opinión escrita.

11 FIGURA CARACTERÍSTICA**12 Solicito la concesión de la patente**NOMBRE : DILIA MARÍA RODRÍGUEZ D'ALEMAN

FIRMA:

C.C. 41.654.882

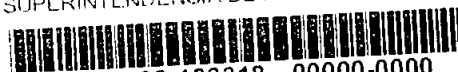
T.P. 20824

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO

NIT : 800176089-2

RECIBO OFICIAL DE CAJA : 08 - 96,117
FECHA : DICIEMBRE 12 DE 2008

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO



No. 08-133318- -00000-0000

Fecha: 2008-12-16 14:48:08 Dep. 2020 NUECREACION
Tra. 11 PATENTE IYII Eve: 379 FASENACIONAL II
Act. 411 PRESENTACION Folios: 77

***** CONSIGNACION *****

DEPOSITANTE	TIPO PAGO	BANCO	CUENTA	No. PAGO	FECHA PGO	Vr. PAGO
CLARKE MODET Y CO. COLOMB	CONSIGNACION	BANCO DE BOGOTA	062754387	97803484	11/12/2008	54,925,000.00

***** CONCEPTO *****

CANT.	RENTISTICO	CONCEPTO	TOTAL CONCEPTO
1	50005-01-01	SOLICITUDES	
		1 TRAMITES DE SOL. DE PATENTE DE IN	501,000.00
		TOTAL :	\$ 501,000.00

SON: QUINIENTOS UN MIL PESOS

RESPONSABLE :

RECIBO DE CAJA APLICADO AL EXPEDIENTE No. _____

P-2076
2

ANEXOS

INVENTORES

1.)

DEGOTT, Pierre

(Chemin des Falaises 15, 1023 Crissier, Suiza);

2.)

DESPLAND, Claude-Alain

(Chemin de la Cure 8, CH-1008 Prilly, Suiza);

3.)

SCHMID, Mathieu

(Rue du Vallon 10, 1005 Lausanne, Suiza);

4.)

MÜLLER, Edgar

(Rue P. -A. de Faucigny 7, CH-1700 Fribourg, Suiza);

5.)

STICHELBERGER, Albert

(Radmayrweg 2, A-4060 Leonding, Austria).

COLOMBIA

Carrera 11 N° 86-53 Piso 6 Bogotá Colombia Tel: (57 1) 6181088 Fax: (57 1) 6350824 Email: info@clarkemodet.com.co

PODER

Yo (nosotros), abajo firmante(s)

JURG BINDER Y DORIAN GARNIER

en mi (nuestro) carácter de representante(s) legales de

SICPA HOLDING S.A.

una sociedad organizada y existente de acuerdo con las leyes de

SUIZA

y en actual cumplimiento de su objeto social, con domicilio en

PRILLY, SIUZA

por el presente instrumento confiero (conferimos) poder especial a favor de DILIA MARIA RODRIGUEZ D'ALEMAN, con Cédula de Ciudadanía No. 41.654.882 de Bogotá, y tp. 20824 y CLAUDIA LUCIA CARO RAMIREZ, con Cédula de Ciudadanía No. 40.017.374 de Tunja, y tp. 36448, con domicilio en Bogotá, Colombia, para que actuando en su orden en nombre del (de la) otorgante le (la) representen ante cualquier entidad, autoridad y/o persona, especialmente ante las del orden Administrativo, Contencioso Administrativo, Judicial, Tribunales de Arbitramento y/o cualquier otro en lo referente a los siguientes asuntos:

- 1) Solicitar, tramitar, obtener y/o registrar cualquiera de las modalidades de Propiedad Industrial, tales como: patentes de invención, modelos de utilidad; diseños industriales, variedades vegetales; marcas, lemas, nombres y enseñas comerciales y denominaciones de origen; así como sus renovaciones, prórrogas, transferencias, cambios de nombre y/o domicilio, contratos y licencias.
- 2) Solicitar, tramitar, obtener y/o registrar derechos de autor, en cualquiera de sus presentaciones así como la protección de secretos industriales y know-how.
- 3) Solicitar, tramitar, obtener y/o registrar registros sanitarios, permisos y/o licencias de funcionamiento; así como sus renovaciones o prórrogas, transferencias, cambios de nombre y/o domicilio, contratos y licencias.
- 4) Ejercer acciones de oposición, observación, reclamos, reconsideración, reposición, apelación, cancelación administrativa o judicial, nulidad, protección al consumidor, concesión de licencias, protección de secretos industriales y demás acciones y recursos relacionados con derechos derivados de los asuntos arriba indicados y en contra de la competencia desleal, acciones derivadas de la obtención o explotación de licencias, acciones de indemnización de perjuicios. También podrá(n) intervenir en juicios civiles, comerciales, penales, contencioso-administrativos, tutelas y de policía; en acciones o juicios promovidos por el (la) mandante o en contra el (ella).
- 5) Registrar nombres de dominio ante la entidad competente.
- 6) En el ejercicio de este mandato los mandatarios arriba mencionados quedan facultados para: conciliar, cancelar, transigir, comprometer en árbitros, desistir, recibir y tomar posesión de la cosa objeto de litigio y renunciar o desistir a derechos concedidos o en curso de concesión, admitir los hechos del proceso.
- 7) Ratificar o no la agencia oficiosa.
- 8) Así mismo faculto (facultamos) a los mencionados apoderados para recibir notificaciones y designar apoderados judiciales o extrajudiciales, sustituir el presente poder y revocar las sustituciones que hicieren.

Dado y firmado en

a los 20 días de mayo

Jürg S. Binder

Director Joint Venture Coordination

Firma / signature

POWER OF ATTORNEY

I (we), the undersigned

JURG BINDER - DORIAN GARNIER

legal representative(s) of

SICPA HOLDING S.A.

an organization existing under the laws of

SWITZERLAND

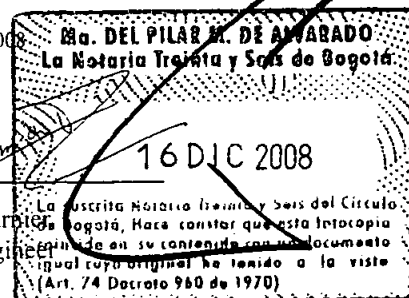
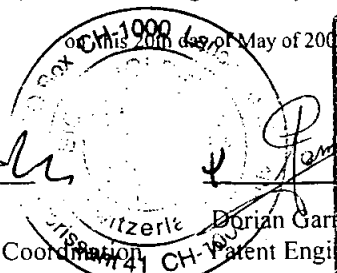
and in present execution of its business activity, domiciled at

PRILLY, SWITZERLAND

do hereby grant POWER OF ATTORNEY to DILIA MARIA RODRIGUEZ D'ALEMAN, identification card No. 41.654.882 of Bogotá, and tp. 20824 and CLAUDIA LUCIA CARO RAMIREZ, tp. 36448, identification card No. 40.017.374 of Tunja, residing in Bogotá, Colombia, to act in the order of their appointment in behalf of grantor before any entity, authority and/or natural or juridical person, specially before those Administrative, Administrative-Contentious, Judicial, arbitration courts, and/or any other, in all matters concerning the following:

- 1) To apply, process, obtain and/or register any of the modalities of Industrial Property, such as: Patents of Invention, Utility Models; Designs, plant varieties; Marks, Slogans, Trade Names and emblems and appellations of Origin; as well as their renewals, assignments, changes of name and/or domicile, agreements and licenses.
- 2) To apply, process, obtain and/or register copyrights of any kind as well as protection of industrial secrets or know-how.
- 3) To apply, process, obtain and/or register sanitary registrations, operating authorizations and/or licenses; as well as their renewals or assignments, changes of name and/or domicile, agreements and licenses.
- 4) To bring actions of opposition, observations, claims, reconsideration, appeal or legal remedies, cancellations, nullity, protection to the consumer, granting of licenses, protection of trade secrets and other actions related with rights derived from the above-mentioned matters and against the unfair competition, actions resulting from the obtaining or exploitation of licenses, recovering damages actions. They can also intervene or participate in Civil, Commercial, Criminal or Contentious-Administrative Trials; the actions for writ mandamus, police actions; in actions, lawsuits or litigations instituted by the grantor or against him.
- 5) To register domain names before the competent entity.
- 6) To the effect of this mandate the above-named proxy are empowered to: conciliate, cancel, settle, submit to arbitration, withdraw and to receive and take possession of the litigation related object and waive or renounce the rights granted or in process of granting, admit the facts of the case.
- 7) To ratify or not the officious agency.
- 8) I (we) hereby appoint the afore mentioned attorneys with powers to receive notifications and to designate judicial and extrajudicial attorneys, substitute this Power of Attorney and to revoke such substitutions.

Granted and signed at Prilly, Switzerland



Legalization Nr 19'043.-

I, Martin HABS, Notary Public in Lausanne (Canton of Vaud, Switzerland), do hereby certify the authenticity by comparison with the original specimens deposited in the notary's office of the signatures affixed on the back of the present page by :

- Mr Jürg BINDER, from Berne, residing at Epalinges, personally known by the Notary Public;
- Mr Dorian GARNIER, French citizen, residing in Lausanne, who justified about his identity with his French passport number 04EE01543, delivered on July 8, 2004;

who duly signed for and on behalf of SICPA HOLDING S.A., an incorporated Swiss company with its legal head office in Prilly (Canton of Vaud, Switzerland).

Lausanne, this twenty-second day of May two thousand and eight.



Martin Habs

APOSTILLE

(Convention de La Haye du 5 octobre 1961)

1. Pays: SUISSE

Le présent acte public

2. a été signé par Martin Habs

3. agissant en qualité de notaire à Lausanne

4. est revêtu du sceau/timbre de Martin HABS - NOTAIRE

Attesté

5. à Lausanne

6. le 23 mai 2008

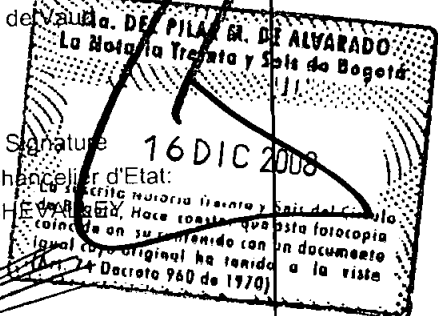
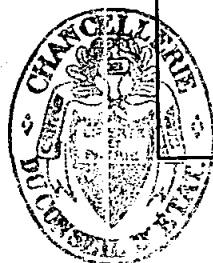
7. par la Chancellerie d'Etat du Canton de Vaud

8. sous No 5739

9. Sceau/timbre:

10. Signature
pr le Chancelier d'Etat:

C. CHEVALER
La Chancellerie d'Etat du Canton de Vaud
Hace constar que esta fotocopia
coincide en su contenido con un documento
igual cuyo original ha tenido a la vista
(Art. 24 Decreto 960 de 1970)



CERTIFICADO NOTARIAL

A los **22** días del mes de **Mayo, 2008**
el Notario que suscribe DA FE de que:

1. **Mr Jurg Binder y Dorian Garnier**
(nombre de la persona que firma el poder)

mayor de edad y domiciliado **Epalinges y lausanne**
respectivamente firmó de su puño
y letra el documento que antecede.

2. Conoce al (a la) otorgante y que este (a) está legalmente capacitado
para el otorgamiento.

3. El otorgante ha firmado el referido documento en su carácter
de **firmantes autorizados**
de la persona jurídica **SICPA HOLDING S.A.**

4. La citada persona jurídica con sede en **Prilly, Suiza**
está legalmente
constituida, que tiene actualmente
existencia legal y que el acto para el cual se ha otorgado este
poder está comprendido entre los que constituyen su objeto social.
5. El otorgante tiene efectivamente la representación que ostenta, que
esta es legítima y que está facultado para otorgar este poder.
6. las anteriores certificaciones de los puntos 3, 4 y 5, me constan porque
he tenido a la vista los documentos auténticos.

Martin Habs

Notario Público

**CERTIFICADO NOTARIAL (Cuando el solicitante es
INDIVIDUO)**

A los _____ días del mes de _____
el Notario que suscribe DA FE de que:

1. _____
(nombre de la persona que firma el poder)

mayor de edad y domiciliado en _____
_____ firmó en su presencia
el documento que antecede, conoce al otorgante y que este está
legalmente capacitado para el otorgamiento.

Notario Público

NOTA: A continuación de lo anterior, el Cónsul de Colombia debe
autenticar la firma del Notario Público.

**LEGALIZACIÓN POR EL CONSUL DE COLOMBIA
O POR APOSTILLA**

NOTARIAL CERTIFICATE

This 22nd day of May 2008,
the undersigned Notary CERTIFIES that:

1. Mr Jürg Binder and Mr Dorian Garnier
(name of the persons who sign the power of attorney)
of legal age and domiciled respectively in Epalinges and Lausanne set their
hand on the foregoing document.

2. The grantors are to him personally known and that they have legal capacity
to execute the document.

3. The grantors have executed the foregoing document in their capacity of
authorised signatories of the juridical person SICPA Holding SA.

4. The mentioned juridical person with place of business in av de Florissant
41, 1008 Prilly, Switzerland is duly organized, has actual legal existence and
that the purposes for which the power of attorney is granted are within the
scope of its corporate purposes.

5. The grantors have in fact the referred quality and that their representation is
legal and that they are empowered to grant this power of attorney.

6. I have based the above certifications 3, 4 and 5, on the authentic documents
which for such purpose were exhibited to me.

Me Martin Habs

Notary Public

(see legalization n°19'043 and apostille on Power of Attorney)

NOTARIAL CERTIFICATE (When the applicant is an INDIVIDUALS)

On this _____ day of _____
the undersigned Notary CERTIFIES that:

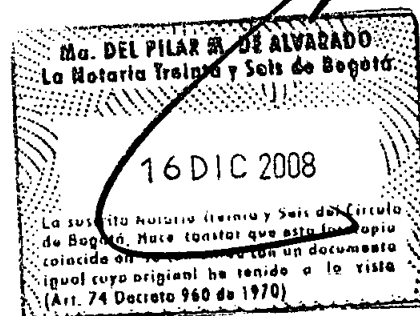
1. _____
(name of the person who signs the Power of Attorney)

of legal age and domiciled at _____
_____ signed in his presence the foregoing
document, the grantor is to him personally known and that he/she has legal
capacity to execute the document.

Notary Public

NOTA: Then the Colombian Consul must legalize the signature of the Notary
Public.

**LEGALIZATION BY THE COLOMBIAN CONSUL OR BY
APOSTILLE.**



Certificación:

Certifico que la presente es una traducción verdadera y completa del documento adjunto: "Sicpa H. – Legalización."

Fecha: 12 de junio de 2008.

Traductor: Jorge Enrique Sierra Reyes.

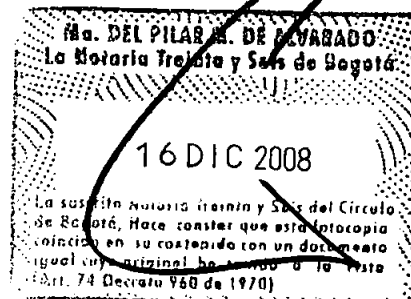
Licencia No. 376 de 1993, del Ministerio de Justicia.

Dirección: Carrera 15 No. 99-13 Oficina 411. Bogotá, Colombia.

Teléfono: (57-1) 2182308, (57-1) 6232925.

E-mail: treseser1@yahoo.com.

Traducción No. 11-254



Traductor Oficial
JORGE E. SIERRA REYES
Licencia 376 - 1993 Minjusticia

APOSTILLA

(Convenio de la Haya del 5 de Octubre de 1961)

1. País: Suiza

Este documento Público

2. Firmado por: Martin Habs

3. Actuando en calidad de: Notario de Lausanne

4. Lleva el sello de la Notaria de Martin Habs- Notario

CERTIFICADO

5. En Lausanne

6. El 23 de mayo de 2008

7. Por la Cancillería de Estado del Cantón de Vaud

8. Con el No.

716024 de la Notaria del Consejo de Estado

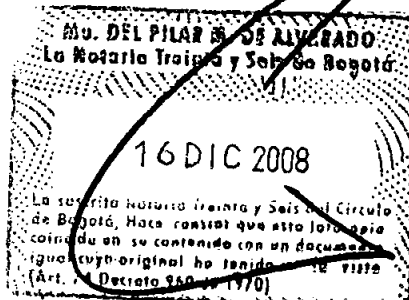
Por el Canciller del Estado

C. CHEVALLEY

MINISTERIO DE
RELACIONES EXTERIORES

2008 JUN 13 A 11:51

Jefe de LEGALIZACIONES
BOGOTÁ D.C.



Resolución
6694/78
Minjusticia

Clemencia Paredes Tejeda
TRADUCTORA OFICIAL
ENGLISH - FRENCH - SPANISH
ANGLAIS - FRANÇAIS - ESPAGNOL

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
24 January 2008 (24.01.2008)

PCT

(10) International Publication Number
WO 2008/009569 A2

(51) International Patent Classification: **Not classified**

CH-1700 Fribourg (CH). **STICHELBERGER, Albert**
[CH/CH]; Rue du Bugnon 33, CH-1020 Renens (CH).

(21) International Application Number:
PCT/EP2007/056863

(74) Agents: **HEPP, Dieter** et al.; Friedtalweg 5, CH-9500 Wil
(CH).

(22) International Filing Date: 6 July 2007 (06.07.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
06117451.2 19 July 2006 (19.07.2006) EP

(71) Applicant (for all designated States except US): **SICPA
HOLDING S.A.** [CH/CH]; Avenue de Florissant 41,
CH-1008 Prilly (CH).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **DESPLAND,
Claude-Alain** [CH/CH]; Chemin de la Cure 8, CH-1008
Prilly (CH). **SCHMID, Mathieu** [CH/CH]; Rue du
Vallon 10, CH-1005 Lausanne (CH). **DEGOTT, Pierre**
[FR/CH]; Chemin des Falaises 15, CH-1023 Crissier (CH).
MÜLLER, Edgar [CH/CH]; Rue P.-A. de Faucigny 7,

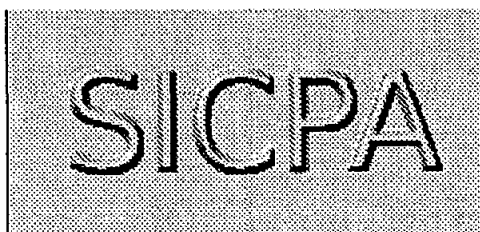
(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH,
CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG,
ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL,
IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK,
LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW,
MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL,
PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY,
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA,
ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

[Continued on next page]

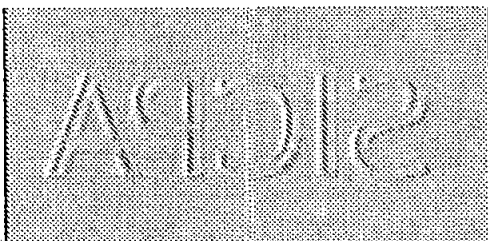
(54) Title: ORIENTED IMAGE COATING ON TRANSPARENT SUBSTRATE

a) view from recto



(57) Abstract: The present invention discloses a security element comprising a transparent substrate and a magnetically oriented image coating on said substrate, wherein said image coating is preferably laid out such as to show a 3-dimensional effect, appearing in positive or negative relief respectively, if observed from the recto- or the verso side, respectively. The security element can be easily identified by the unaided eye, by just turning around the document and observing the angle-dependent image on either side. On the other hand, the security element cannot be reproduced by scanning or copying the document.

b) view from verso



WO 2008/009569 A2



FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL,
PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

- *without international search report and to be republished upon receipt of that report*

Oriented image coating on transparent substrate**Field of the Invention:**

The present invention relates to a security element for value and ID documents. More specifically it relates to an angle-dependent image on a transparent substrate, preferably showing a 3-dimensional effect, in positive or negative relief, if observed from the recto- or verso side, respectively.

Background of the Invention:

Optically variable devices of various types are used as efficient anti-copying means on security- and value-documents. Among these, particularly important optically variable copy-protection means are the optically variable inks (OVI®; EP-A-0227423). Optically variable inks (OVI®) are used to print surfaces and/or indicia which exhibit a viewing angle dependent color (= color shift).

Said anti-copying inks comprise optically variable pigments (OVP™); preferred types being the flake shaped thin-film optical interference pigments described in US 4,705,300; US 4,705,356; US 4,721,271 and thereto related disclosures.

Magnetic optically variable pigments in printing inks or coatings allow for the production of magnetically induced images, designs and/or patterns through the application of a corresponding magnetic field, causing an orientation of the magnetic optically variable pigment in the coating, followed by drying/curing the latter. The result is a fixed magnetically induced image, design or pattern in an optically variable ink. Depending on their layout, said images, patterns or designs are perceived as

having a three dimensional or relief-like appearance, although the printing itself remains geometrically flat.

The magnetic optically variable printing inks disclosed in the co-pending European patent application EP06113891.3 of the same applicant, the respective content of which is herein included by reference, are particularly adapted for the production of magnetically induced images.

Materials and technology for the orientation of magnetic particles in coating compositions, and corresponding printing processes have been disclosed in US 2,418,479; US 2,570,856; US 3,791,864; US 3,676,273; US 5,364,689; US 6,103,361; US 2004/0051297; US 2004/0009309; US 2002/0160194; WO 02/09002; US 2005/0106367; WO 04/007095; WO 2005/058608 and WO 2005/002866, the respective contents of these documents are incorporated herein by reference.

The documents of the prior art provide thus various methods and apparatuses for producing a magnetic image coating on a substrate. In all cases, said magnetic image coating is provided in such a way that it can be viewed only from a single side of the substrate, noteworthy from the printed side. No recto-verso use of a magnetically oriented coating has been disclosed.

Description of the invention:

It was the problem of the present invention to provide a security element which allows an easy authentication of an article such as a banknote and which can be performed by the man on the street with the unaided eye.

According to the present invention, this problem is solved by a security element as defined in claim 1. More specifically, the present invention is related to a security element comprising a transparent substrate and a magnetically oriented image coating on said substrate.

It was surprisingly discovered that an optically variable security element comprising a transparent substrate, which allows to observe a coating disposed thereupon from the recto and the verso side, said coating carrying a design with a special visual appearance, preferably a 3D appearance, produced through the orientation of pigment flakes, e.g. by applied magnetic fields, is an extremely valuable security element for the rapid visual (overt) authentication of documents, in particular of transparent items or items comprising transparent regions. In fact, the especially preferred magnetically produced, apparent 3D-relief inverts upon a change of the side of observation; it is therefore sufficient to turn the document around and to observe the inversion of the magnetically induced image, in order to rapidly authenticate the document.

Magnetic orientation of an image coating results in a visual effect which can change depending upon the viewing angle under which said image coating is observed. This effect is preferably a 3-dimensional effect which is reverted when said image is viewed from the upper or lower side (recto or verso side). However, also other visual effects are possible, such as switching optical effects or rolling bar-type images.

For example, if the design is perceived as a round curvature, a line or spot of maximum reflection appears on the design; said line or spot moves with the angle of observation either in the

same sense (convex appearance), or in the opposite sense, (concave appearance), depending on the side of observation.

The security element of the present invention is thus an angle-dependent image on a transparent substrate, preferably laid out such as to show a 3-dimensional effect, appearing in positive or negative relief respectively when observed from the recto- or verso side, respectively, such as illustrated by Fig. 1 which is explained in more detail below. The 3-dimensional image appears to come out of the plane or to go into the plane, depending on the side of observation.

Examples of suitable 3D-designs are a cylinder, a hemisphere, a pyramid, a cone, a roof, etc. Several geometric forms may further be combined. Their simple appearance can be easily recognized as emerging from or diving into the plane of the image. More sophisticated designs such as numbers, characters, figures or logos may be produced as well. The security element of the present invention is preferably combined with color-shifting elements, such as the "switching optical effect" and "rolling bar-type images" disclosed in WO 04/007095.

The security element of the present invention can be easily identified by the unaided eye, just by turning around the document or item, and observing the angle-dependent image on either side. It is therefore very suited for use by the man in the street, who is provided with a simple means to check the authenticity of e.g. a banknote.

The security element of the present invention can further be over-laminated with a transparent foil, in order to increase the resistance and life-time of the security element.

The transparent substrate can be of any plastic or polymer material which is transparent in at least part of the visible spectrum (i.e. in the wavelength range between 400nm and 700nm). It is, in fact, sufficient for the visual identification of the overt security element, if the human observer can at least see through the substrate in a part of the visible spectral domain. Preferably, the transparent substrate is chosen from polyethylene-terephthalate, polycarbonate, polyvinyl chloride, polyacrylates, polyacrylonitriles, polystyrene, polypropylene, polynaphthalene-terephthalate, and mixtures or copolymers thereof.

Said transparent substrate may be coloured, entirely or in part, provided that there is transparency in at least part of the visible spectrum, such as to allow a human observer to see through, e.g. the transparent substrate and the laminate, and to allow for the perception of the magnetically induced image from both sides, recto and verso of the laminated product.

"Transparent" in the context of the present invention means: "providing for optical transparency at least in part of the visible spectrum (400nm-700nm wavelength)".

The angle-dependent image on the transparent substrate is produced by applying, orienting and drying/curing a magnetically orientable coating on this latter, e.g. according to the co-pending application EP06113891.3 filed by the same applicant, whose contents are incorporated herein by reference.

Thus, the process for producing said magnetically induced image coating on a transparent substrate comprises the steps of a) applying a coating composition comprising magnetically orientable pigments to a transparent substrate surface, b) orienting the magnetic pigment particles in the applied coating composition of

step a) by applying a magnetic field so as to create a specific visual effect which changes depending upon the viewing angle under which said image coating is observed, such as a 3-dimensional effect in the coating which appears in positive or negative relief if observed from the recto- or verso side, respectively, and c) curing/drying the oriented coating composition of step b) to fix the particles in the oriented position.

In detail, to produce said magnetically induced image coating, a printing ink or coating composition, comprising magnetic orientable pigments, preferably magnetic optically variable interference pigments, is applied to said transparent substrate by a printing process such as copper plate intaglio printing, flexographic printing, gravure printing, silkscreen printing or roller coating, and the magnetic pigments are oriented, e.g. according to WO 2005/002866; the coating is finally dried/cured as known to the skilled man.

Suitable printing inks or coating compositions are disclosed in the co-pending European patent application EP06113891.3, wherein magnetic optically variable printing inks or coating compositions are described to the very detail, which have the required characteristics for the magnetic orientation of pigment particles to form patterns, images or designs in said coating.

The pigments comprised in the magnetic optically variable printing inks or coating compositions are preferably magnetic optically variable interference pigments chosen from vacuum deposited magnetic thin film interference pigments, interference coated metallic pigments, interference coated non-metallic pigments, magnetic liquid crystal pigments, and mixtures thereof. Magnetic optically variable pigments according to WO 02/073520; US 4,838,648; EP-A 688675; WO 02/73250; WO 03/00801 or US

6,838,166 are preferably used according to the present invention. The vacuum deposited magnetic thin film interference pigments can be chosen from the five layer and seven layer vacuum deposited magnetic thin film interference pigments of US 4,838,648 and WO 02/73250.

The magnetic pigment in the said coating is oriented by the application of suitable magnetic fields, preferably so as to show a 3-dimensional effect. The orienting step b) can be performed either simultaneously with the coating step a) or subsequently to the coating step a). Magnetic orientation of magnetic particles has been described in the art. Reference is made in this respect to the prior art documents cited in the introductory part of the present application.

The curing/drying step c) can be performed by physical evaporation of volatile compounds, UV curing, oxidative reticulation, chemical cross-linking, electron beam curing, or by any combination thereof.

The process for producing said security element may further comprise the step of laminating a transparent foil over the magnetically induced image coating, in order to increase the resistance and life-time of the security element. Said transparent foil can be chosen from poly-ethylene-terephthalate, polycarbonate, polyvinyl chloride, polyacrylates, polyacrylonitriles, polystyrene, polypropylene, poly-naphthalene-terephthalate, and mixtures or copolymers thereof. Thus, for the selection of the transparent over-lamination foil, the same criteria apply as for the transparent substrate. In a particular embodiment, the magnetically induced image coating is disposed between two plastic foils of the same type.

The security element of the present invention may further comprise other marking means such as infrared markers, luminescent markers such as fluorescent markers or phosphorescent markers, UV markers, magnetic markers, forensic markers or mixtures thereof, as well as other security elements (holograms, etc.), physically embossed reliefs or indicia.

A particularity of the security element of the present invention is that the color, the apparent relief, as well as the color-shifting properties are neutralized when it is illuminated from the back side, e.g. on a light table, or held against an illuminating background such as a lamp or the sky.

This additional effect further enhances the value of the security element of the present invention, because it allows for its rapid authentication by front-light against back-light observation. The perception of the angle-dependent, recto-verso 3-D relief features of the security element of the present invention depends in fact on front-lighting conditions.

Further to this, the perception of the security element of the present invention in translucidity depends also on the local coloration of the transparent substrate and of the overlamination foil. This enables the skilled man to realize further interesting embodiments.

The security element of the present invention can be used on security documents or security articles such as banknotes, credit cards, access cards, security badges, documents of value, rights, or identity, transportation tickets, lottery tickets, event tickets, tax banderoles, security threads, labels, foils, tear-strips or product security applications, as a protection against counterfeit or illegal reproduction.

In general, the said security documents or security articles need to have a transparent area wherein the security element of the present invention is applied. This can be achieved by integration of transparent areas such as windows, threads and the like into said documents, e.g. a punched-out hole covered with a transparent foil, or, alternatively, said documents are completely made of such transparent substrates, providing for a transparent region, i.e. a region which is free of ink or coating. Some currencies, made of polymer substrate, provide for such transparent areas and are therefore able to carry the security element of the present invention.

The present invention will now be further illustrated with reference to non-limiting examples and drawings.

Figure 1 shows a computer generated illustration of the inversion of a text in relief in recto and verso view, respectively.

Figure 2 shows the result of a copier scan of a magnetically induced image, comprising magnetic optically variable interference pigment according to the present invention. Both, the recto and the verso sides were scanned and reproduced.

Figure 3 schematically shows in a cross section view how a relief or 3D appearance is produced in a geometrically flat coating through the appropriate orientation of particles.

As illustrated in Fig. 1, the angle-dependent image (design, pattern) of the invention should allow for an easy perception of

a relief, either coming out of the plane or going into the plane of the image, when viewed from one side or the other side.

In Fig. 2, no particular difference is seen as to the 3D effect of the recto and the verso side. However, on the original, the "20" on the recto side (a) appears in positive relief on a concave surface, whereas the "20" on the verso side (b) appears in negative relief on a convex surface. This illustrates that the security element of the present invention is not copy-able or scan-able.

Fig. 3 schematically shows in a cross section view how a relief or 3D appearance can be produced in a geometrically flat coating through the appropriate orientation of particles. The pigment flakes (1) in the coating (2) are oriented in the same way as if they would be present on the surface of a hemisphere (3) but projected down into the plane of the coating. In recto view a) the flakes fixed in their positions provide for the very same appearance as if they would be present on a convex hemisphere. In verso view b) the pigment flakes appear as if they would be present on a concave hemisphere.

This relief in Fig. 3 must not be confused with a physically embossed 3D-relief structure, which is a different security element. In fact, the security element of the present invention can be independently combined with such an embossed relief.

Claims:

1. Security element comprising a transparent substrate and a magnetically oriented image coating on said substrate.
2. Security element according to claim 1, wherein said image coating is laid out such as to show a 3-dimensional effect, appearing in positive or negative relief respectively, if observed from the recto- or the verso side, respectively.
3. Security element according to one of claims 1 to 2, wherein said transparent substrate is selected from the group consisting of poly-ethylene-terephthalate, polycarbonate, polyvinyl chloride, polyacrylates, polyacrylonitrile, polystyrene, polypropylene, poly-naphthalene-terephthalate, and mixtures or copolymers thereof.
4. Security element according to one of claims 1 to 3, wherein a transparent foil is laminated over said magnetically oriented image coating.
5. Security element according to claim 4, wherein said transparent foil is selected from the group consisting of poly-ethylene-terephthalate, polycarbonate, polyvinyl chloride, polyacrylates, polyacrylonitrile, polystyrene, polypropylene, poly-naphthalene-terephthalate, and mixtures or copolymers thereof.
6. Security element according to one of claim 1 to 5, wherein said magnetically oriented image coating comprises magnetic optically variable interference pigments.

22

7. Security element according to claim 6, wherein said magnetic optically variable interference pigments are selected from the group consisting of vacuum deposited magnetic thin film interference pigments, interference coated metallic pigments, interference coated non-metallic pigments, magnetic liquid crystal pigments, and mixtures thereof.
8. Security element according to claim 7, wherein said pigments are selected from the group consisting of five-layer and seven layer vacuum deposited magnetic thin film interference pigments.
9. Security element according to one of claims 1 to 8, further comprising marking means selected from the group consisting of infrared markers, fluorescent markers, UV markers, phosphorescence markers, magnetic markers, forensic markers and mixtures thereof.
10. Security element according to one of claims 1 to 9, further comprising other security elements selected from the group consisting of holograms, embossed reliefs, indicia or combinations thereof.
11. Security element according to one of claims 1 to 10, further comprising color-shifting elements, such as a switching optical effect or a rolling bar-type image.
12. Process for producing a security element according to one of claims 1 to 11, comprising the steps of
 - a) applying a coating composition comprising magnetically orientable pigments to a transparent substrate surface,

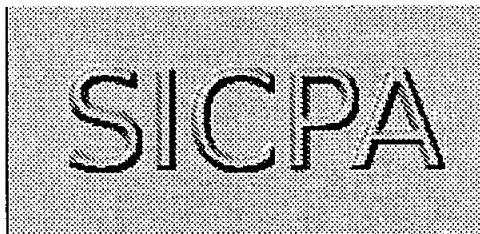
- b) orienting the magnetic pigment particles in the applied coating composition of step a) by applying a magnetic field, and
 - c) curing/drying the oriented coating composition of step b) to fix the particles in the oriented position.
13. Process according to claim 12, further comprising the step of laminating a transparent foil over said magnetically induced image coating.
14. Process according to one of claims 12 or 13, wherein said orientation step b) is performed simultaneously with said coating step a).
15. Process according to one of claims 12 or 13, wherein said orientation step b) is performed subsequently to said coating step a).
16. Process according to one of claims 12 to 15, wherein said curing/drying step c) is carried out by a process selected from the group consisting of physical evaporation, UV-curing, oxidative reticulation, chemical crosslinking, electron beam curing, or any combination thereof.
17. Process according to one of claims 12 to 16, wherein said step a) is performed by means of a printing process selected from the group consisting of copperplate intaglio printing, flexographic printing, gravure printing, silkscreen printing and roller coating.
18. Use of a security element according to one of claims 1 to 11 for security documents such as banknotes, credit cards, access cards, security badges, documents of value, rights or

identity, transportation tickets, lottery tickets, event tickets, tax banderoles, security threads, labels, foils, strips or product security applications.

19. A document such as a banknote, a credit card, an access card, a security badge, a document of value, rights or identity, a transportation ticket, a lottery ticket, an event ticket, a tax banderole, a security thread, a label, a foil, a tear-strip or a product security application, wherein said document comprises at least one security element according to one of claims 1 to 11.

Fig. 1

a) view from recto



b) view from verso

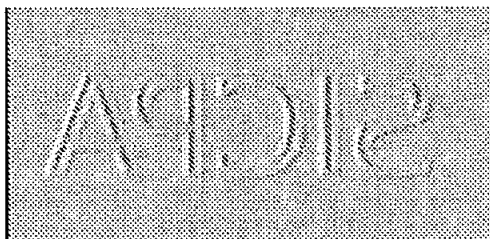
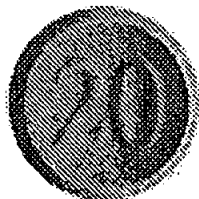


FIG. 2

a) scanned view recto



b) scanned view verso

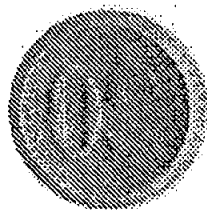
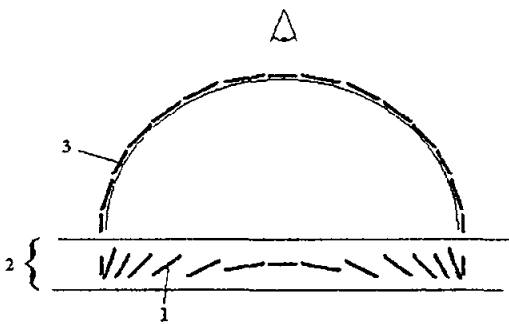
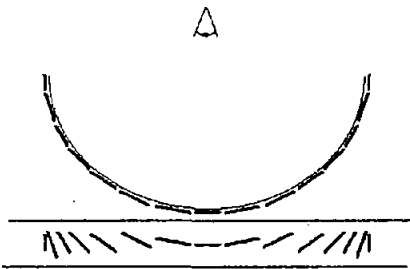


FIG. 3

a) recto view



b) verso view



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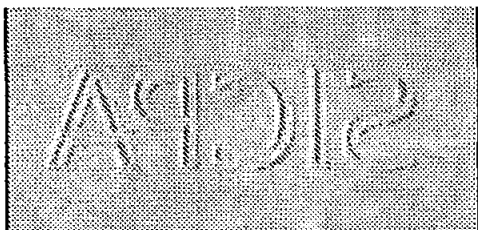
[Continued on next page]

(54) Title: ORIENTED IMAGE COATING ON TRANSPARENT SUBSTRATE

a) view from recto



b) view from verso



(57) Abstract: The present invention discloses a security element comprising a transparent substrate and a magnetically oriented image coating on said substrate, wherein said image coating is preferably laid out such as to show a 3-dimensional effect, appearing in positive or negative relief respectively, if observed from the recto- or the verso side, respectively. The security element can be easily identified by the unaided eye, by just turning around the document and observing the angle-dependent image on either side. On the other hand, the security element cannot be reproduced by scanning or copying the document.

WO 2008/009569 A3



European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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Minimum documentation searched (classification system followed by classification symbols)

B42D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 650 042 A (JDS UNIPHASE CORP [US]) 26 April 2006 (2006-04-26) paragraphs [0011], [0014], [0025], [0038]; figures 1,2	1,6-8, 12,15-19
X	US 2004/051297 A1 (RAKSHA VLADIMIR P [US] ET AL) 18 March 2004 (2004-03-18) cited in the application paragraphs [0054] - [0061]; figures 1a,1b	1,2,6-8, 12,15-19
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A	EP 1 042 130 B1 (SECURENCY PTY LTD [AU]) 1 March 2006 (2006-03-01) the whole document	1
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☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

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Evans, Andrew

INTERNATIONAL SEARCH REPORT

International application No
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 186 944 A (PEARCE RALPH R [GB]) 5 February 1980 (1980-02-05) the whole document -----	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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RECUBRIMIENTO CON UNA IMAGEN ORIENTADA EN UN SUSTRATO TRANSPARENTE

CAMPO DE LA INVENCION

La presente invención se relaciona con un elemento de seguridad para documentos de valor y de identidad. Más específicamente, se relaciona con una imagen que depende del ángulo de visión en un sustrato transparente, que muestra preferentemente un efecto tridimensional en relieve positivo o negativo cuando se observa respectivamente desde el lado recto o desde el lado verso.

ANTECEDENTES DE LA INVENCION

Se usan dispositivos ópticamente variables de diversos tipos como medios eficientes de anti-copiado en documentos de seguridad y de valor. Entre éstos, las tintas ópticamente variables (OVI®; EP-A-0227423) son medios particularmente importantes del tipo de los elementos ópticamente variables para la protección contra el copiado. Las tintas ópticamente variables (OVI®) se usan para imprimir superficies y/o marcas indicativas que exhiben un color que es dependiente del ángulo de visión (=cambio de color).

Dichas tintas anti-copiado comprenden pigmentos ópticamente variables (OVP™), donde los tipos preferidos son los pigmentos de interferencia óptica en película delgada formada por escamas descritos en las patentes US 4.705.300; US 4.705.356; US 4.721.271 y en los contenidos de las solicitudes relacionadas.

Los pigmentos con propiedades magnéticas ópticamente variables en las tintas de impresión o en los recubrimientos permiten la producción de imágenes, diseños y/o patrones que son magnéticamente inducidos a través de la aplicación de un correspondiente campo magnético, lo que provoca una

orientación del pigmento magnético ópticamente variable en el recubrimiento y que es seguido por el secado/curado de este último. El resultado es una imagen, diseño o patrón fijo magnéticamente inducido en una tinta ópticamente variable. Dichas imágenes, patrones o diseños se perciben, dependiendo de su composición, como que tienen una apariencia tridimensional o de tipo relieve, a pesar que la impresión en sí misma tiene características geométricamente planas.

Las tintas de impresión con propiedades magnéticas ópticamente variables que se describen en la Solicitud de Patente Europea en trámite conjunto EP06113891.3 del mismo solicitante, cuyo contenido respectivo se incorpora en la presente solicitud a modo de referencia, están particularmente adaptadas para la producción de imágenes inducidas magnéticamente.

Se han descrito los materiales y la tecnología para la orientación de las partículas magnéticas en las composiciones de recubrimiento y los correspondientes procesos de impresión en las patentes US 2.418.479; US 2.570.856; US 3.791.864; US 3.676.273; US 5.364.689; US 6.103.361; US 2004/0051297; US 2004/0009309; US 2002/0160194; WO 02/09002; US 2005/0106367; WO 04/007095; WO 2005/058608 y WO 2005/002866, los contenidos respectivos de estos documentos se incorporan en la presente solicitud a modo de referencia.

Entonces, los documentos del estado de la técnica previa proporcionan diversos métodos y aparatos para producir un recubrimiento magnético en el cual se forma una imagen en un sustrato. En todos los casos, se proporciona dicho recubrimiento magnético con una imagen de tal manera que solo se puede ver desde un único lado del sustrato, de interés desde el lado impreso.

No se describe ningún uso recto-verso de un recubrimiento orientado magnéticamente.

DESCRIPCIÓN DE LA INVENCION

El problema de la presente invención es proporcionar un elemento de seguridad que permita una autenticación fácil de un artículo tal como un billete de banco y que la misma la pueda realizar el hombre en la calle a simple vista.

De acuerdo con la presente invención, este problema se resuelve por medio de un elemento de seguridad tal como se define en la reivindicación 1. Más específicamente, la presente invención se relaciona con un elemento de seguridad que comprende un sustrato transparente y un recubrimiento con una imagen orientada magnéticamente en dicho sustrato.

Sorprendentemente se descubrió que un elemento de seguridad ópticamente variable, que comprende un sustrato transparente que permite observar un recubrimiento dispuesto a continuación del lado recto y del lado verso, donde dicho recubrimiento tiene un diseño con un aspecto visual especial, preferiblemente una apariencia 3D, que se produce a través de la orientación de las escamas del pigmento, p. ej., por la aplicación de campos magnéticos; es un elemento de seguridad extremadamente valioso para la autenticación visual rápida (evidente) de los documentos, en particular, de artículos transparentes o de artículos que comprenden regiones transparentes. En efecto, relieve 3D evidente especialmente preferido que se produce magnéticamente, se invierte al cambiar el lado de la observación, por lo tanto, es suficiente girar el documento y observar la inversión de la imagen magnéticamente inducida, con el fin de autenticar rápidamente el documento.

La orientación magnética de un recubrimiento en el cual se forma una imagen resulta en un efecto visual que puede cambiar dependiendo del ángulo de visión bajo el cual se observa dicho recubrimiento con una imagen. El efecto es preferiblemente un efecto tridimensional que se revierte cuando se observa dicha imagen desde el lado superior o desde el lado inferior (lado recto o lado verso). Sin embargo, también son posibles otros efectos visuales, tales como los efectos de conmutación óptica o las imágenes del tipo que muestran una barra que aparenta moverse (*rolling bar*).

Por ejemplo, si se percibe el diseño como una curvatura redonda, aparece en el diseño una línea o un punto de máxima reflexión; dicha línea o punto se mueve con el ángulo de observación, tanto en el mismo sentido (representación convexa) como en el sentido opuesto (representación cóncava) dependiendo del lado de la observación.

El elemento de seguridad de la presente invención es entonces una imagen que depende del ángulo de visión en un sustrato transparente, preferentemente diseñado tal como para mostrar un efecto tridimensional, que aparece respectivamente en relieve positivo o negativo cuando se observa respectivamente desde el lado recto o desde el lado verso tal como se ilustra en la Figura 1, la que se explica a continuación con mayor detalle. La imagen tridimensional parece salirse del plano o entrar en el plano, dependiendo del lado de la observación.

Los ejemplos de diseños 3D apropiados son un cilindro, un hemisferio, una pirámide, un cono, un techo, etc. Además, se pueden combinar varias formas geométricas. Su simple aspecto puede ser fácilmente reconocible como que emerge desde el plano de la imagen o que se zambulle en el plano de la

imagen. También se pueden producir diseños más sofisticados tales como números, caracteres, figuras o logotipos. El elemento de seguridad de la presente invención se combina preferentemente con elementos que cambian de color, tales como el "efecto de conmutación óptica" y las "imágenes del tipo barra que se balancea" que se describen en la patente WO 04/007095.

El elemento de seguridad de la presente invención se puede identificar fácilmente a simple vista, con solo girar el documento o el artículo, y observar en cada lado la imagen que depende del ángulo de visión. Por lo tanto, su uso es muy conveniente para la gente común a la cual se le proporciona un medio sencillo para controlar la autenticidad de p. ej., un billete de banco.

El elemento de seguridad de la presente invención puede ser además sobre-laminado con una película transparente con el fin de aumentar la resistencia y la vida útil del elemento de seguridad.

El sustrato transparente puede ser de cualquier material plástico o polímero que sea transparente en por lo menos parte del espectro visible (es decir, en el rango de longitud de onda que se encuentra entre los 400nm y los 700nm). En realidad, es suficiente para la identificación visual del elemento de seguridad manifiesto si el observador humano puede al menos ver a través del sustrato en una parte del dominio espectral visible. Es preferible si se elige el sustrato transparente entre el tereftalato de polietileno, policarbonato, cloruro de polivinilo, poliacrilatos, poliacrilonitrilos, poliéstereno, polipropileno, tereftalato de poli-naftaleno y mezclas o copolímeros de los mismos materiales.

Dicho sustrato transparente puede ser de color, totalmente o en parte, con la condición de que tiene que haber transparencia en por lo menos una parte del espectro visible, para de esa manera permitir que un observador

humano mire a través, por ejemplo, del sustrato transparente y el laminado y permitir la percepción de la imagen inducida magnéticamente desde ambos lados, recto y verso del producto laminado.

"Transparente" en el contexto de la presente invención significa: "que proporciona transparencia óptica en por lo menos una parte del espectro visible (longitud de onda 400nm-700nm)".

La imagen dependiente del ángulo de visión en el sustrato transparente se produce al aplicar, orientar y secar/curar un recubrimiento que se orienta magnéticamente en este último, p. ej., de acuerdo con la solicitud de patente en trámite conjunto EP06113891.3 presentada por el mismo solicitante, cuyos contenidos están incorporados en la presente solicitud a modo de referencia.

Entonces, el proceso de producir dicho recubrimiento con una imagen inducida magnéticamente en un sustrato transparente comprende las etapas de a) aplicar una composición de recubrimiento, que comprende los pigmentos que se pueden orientar magnéticamente, a una superficie de sustrato transparente, b) orientar las partículas magnéticas del pigmento en la composición de recubrimiento aplicado en la etapa a) mediante la aplicación de un campo magnético de manera de crear un efecto visual específico que cambia dependiendo del ángulo de visión bajo el cual se observa dicho recubrimiento con una imagen, tal como un efecto tridimensional en el recubrimiento que aparece en relieve positivo o negativo si se observa respectivamente desde el lado recto o desde el lado verso, y c) curar/secar la composición de recubrimiento orientada de la etapa b) para fijar las partículas en la posición orientada.

En detalle, para producir dicho recubrimiento con una imagen inducida magnéticamente, una tinta de impresión o una composición de recubrimiento, que comprende pigmentos que se orientan magnéticamente, preferiblemente pigmentos de interferencia magnéticos ópticamente variables, se aplica a dicho sustrato transparente mediante un proceso de impresión tal como la impresión calcográfica con plancha de cobre intaglio, la impresión flexográfica, la impresión en huecograbado, la serigrafía o el recubrimiento por rodillos; y los pigmentos magnéticos se orientan, p. ej., de acuerdo con la patente WO 2005/002866; finalmente el recubrimiento es secado/curado según el conocimiento de la persona experta.

En la Solicitud de Patente Europea en trámite conjunto EP06113891.3 se describen tintas de impresión o composiciones de recubrimiento apropiadas en donde las tintas de impresión magnéticas ópticamente variables o las composiciones de recubrimiento se describen en gran detalle, las que tienen las características requeridas para la orientación magnética de las partículas del pigmento para formar patrones, imágenes o diseños en dicho recubrimiento.

Los pigmentos comprendidos en las tintas de impresión magnéticas ópticamente variables o en las composiciones de recubrimiento son preferiblemente pigmentos de interferencia magnéticos ópticamente variables elegidos entre pigmentos de interferencia magnéticos formados por películas delgadas por deposición al vacío, pigmentos de interferencia metálicos recubiertos, pigmentos de interferencia no metálicos recubiertos, pigmentos magnéticos con polímeros de cristal líquido, y mezclas de los mismos. Los pigmentos magnéticos ópticamente variables de acuerdo con las patentes WO

02/073520; US 4.838.648; EP-A 688675; WO 02/73250; WO 03/00801 o US 6.838.166 se usan preferiblemente de acuerdo con la presente invención. Los pigmentos de interferencia magnéticos formados por películas delgadas por deposición al vacío se pueden elegir de los pigmentos de interferencia magnéticos de películas delgadas de cinco capas y de siete capas depositadas al vacío de las patentes US 4.838.648 y WO 02/73250.

El pigmento magnético en el dicho recubrimiento está orientado por la aplicación de campos magnéticos apropiados para mostrar preferiblemente un efecto tridimensional. La etapa de orientación b) se puede realizar tanto simultáneamente con la etapa de recubrimiento a) o consecutivamente de la etapa de recubrimiento a). En la técnica se ha descrito la orientación magnética de las partículas magnéticas. En este sentido se hace referencia a los documentos del estado previo de la técnica que están citados en la parte introductoria de la presente solicitud.

La etapa de curado/secado c) se puede realizar por la evaporación física de los compuestos volátiles, el curado UV, la reticulación oxidativa, el entrecruzamiento químico, el curado por haz de electrones o por cualquier combinación de los mismos métodos.

El proceso de producir dicho elemento de seguridad puede comprender además, la etapa de laminar una película delgada sobre el recubrimiento con una imagen inducida magnéticamente, a fin de aumentar la resistencia y la vida útil del elemento de seguridad. Se puede elegir dicha película delgada entre el tereftalato de polietileno, policarbonato, cloruro de polivinilo, poliacrilatos, poliacrilonitrilos, poliestereno, polipropileno, tereftalato de poli-naftaleno y mezclas o copolímeros de los mismos productos. Entonces, para la selección

de la película transparente para la sobre-laminación se aplica el mismo criterio que para el sustrato transparente. En una realización particular, el recubrimiento con una imagen inducida magnéticamente se dispone entre dos películas plásticas del mismo tipo.

El elemento de seguridad de la presente invención puede comprender además, otros medios de marcación tales como marcadores infrarrojos, marcadores luminiscentes tales como marcadores fluorescentes o marcadores fosforescentes, marcadores UV, marcadores magnéticos, marcadores forenses y mezclas de los mismos, como así también otros elementos de seguridad (hologramas, etc.), relieves físicamente grabados o una marca distintiva.

Una particularidad del elemento de seguridad de la presente invención es que el color, el relieve evidente, como también las propiedades de cambio de color son neutralizadas cuando se las ilumina desde el lado trasero, p. ej., en una mesa de calco o cuando se las sostiene contra un fondo iluminado tal como una lámpara o el cielo.

Este efecto adicional aumenta además el valor del elemento de seguridad de la presente invención porque permite su rápida autenticación con una luz frontal en oposición a la observación con luz que viene de atrás. La percepción de la dependencia con el ángulo de visión, las características de relieve recto-verso 3D del elemento de seguridad de la presente invención dependen de hecho de las condiciones de iluminación frontal.

Con referencia a esto, la percepción del elemento de seguridad de la presente invención en la translucidez también depende de la coloración local del sustrato transparente y de la película de sobre-laminación. Esto permite a la persona hábil darse cuenta de realizaciones adicionales interesantes.

El elemento de seguridad de la presente invención se puede usar en documentos de seguridad o artículos de seguridad tales como billetes de banco, tarjetas de crédito, tarjetas de acceso, credenciales de seguridad, documentos de valor, de derechos o de identidad, boletos para transporte, billetes de lotería, entradas para eventos, cintas fiscales, hilos de seguridad, etiquetas, películas, cintas abre fácil o aplicaciones para la seguridad del producto como una protección contra la falsificación o la reproducción ilegal.

En general, los dichos documentos de seguridad o artículos de seguridad necesitan tener un área transparente en donde se aplica el elemento de seguridad de la presente invención. Esto se puede lograr por la integración de áreas transparentes tales como ventanas, hilos y similares en dichos documentos, p. ej., una perforación agujereada cubierta con una película transparente, o, alternativamente, dichos documentos están completamente hechos de tales sustratos transparentes, que proporcionan una región transparente, p. ej., una región que está libre de tinta o de recubrimiento. Algunas divisas, confeccionadas con un sustrato de polímero, proporcionan tales áreas transparentes y tienen por lo tanto la capacidad de llevar el elemento de seguridad de la presente invención.

De ahora en adelante se ilustrará la presente invención con referencia a ejemplos y dibujos no limitativos.

La Figura 1 muestra una imagen generada por computadora de la inversión de un texto en relieve respectivamente en una vista en recto y una vista en verso.

La Figura 2 muestra el resultado de una copia realizada con un escáner de una imagen inducida magnéticamente que comprende un pigmento de

interferencia magnético ópticamente variable de acuerdo con la presente invención. Se escanearon y se reprodujeron ambos lados, recto y verso.

La Figura 3 muestra esquemáticamente en una vista de la sección transversal cómo se produce un relieve o un aspecto 3D en un recubrimiento geoméricamente plano mediante la apropiada orientación de las partículas.

Como se ilustra en la Figura 1, la imagen (diseño, patrón) dependiente del ángulo de visión de la invención debería permitir una fácil percepción de un relieve, tanto si sale del plano de la imagen como si entra en el plano de la imagen, cuando se lo mira desde un lado o desde el otro lado.

En la Figura 2, no se nota ninguna diferencia particular en cuanto al efecto 3D del lado recto y del lado verso. Sin embargo, en el original el "20" en el lado recto (a) aparece en relieve positivo en una superficie cóncava, mientras que el "20" en el lado verso (b) aparece en relieve negativo en una superficie convexa. Esto ilustra que el elemento de seguridad de la presente invención no se puede copiar o escanear.

La Figura 3 muestra esquemáticamente en una vista de sección transversal cómo se puede producir un relieve o un aspecto 3D en un recubrimiento geoméricamente plano a través de la orientación apropiada de las partículas. Las escamas del pigmento (1) en el recubrimiento (2) se orientan de la misma manera, como si estarían presentes en la superficie de un hemisferio (3) pero proyectadas hacia abajo en el plano del recubrimiento. En la vista recto a) las escamas fijas en sus posiciones proporcionan el mismísimo aspecto, como si estarían presentes en un hemisferio convexo. En la vista verso b) las escamas del pigmento aparecen como si estarían presentes en un hemisferio cóncavo.

Este relieve en la Figura 3 no se debe confundir con una estructura de relieve 3D físicamente grabada que es un elemento de seguridad diferente. De hecho, el elemento de seguridad de la presente invención se puede combinar independientemente con tal relieve grabado.

REIVINDICACIONES

1. Un elemento de seguridad CARACTERIZADO PORQUE comprende un sustrato transparente y un recubrimiento con una imagen orientada magnéticamente en dicho sustrato.
2. El elemento de seguridad de acuerdo con la reivindicación 1, CARACTERIZADO PORQUE dicho recubrimiento con una imagen se diseña tal como para mostrar un efecto tridimensional donde aparece respectivamente un relieve en positivo o en negativo si se lo observa respectivamente desde el lado recto o desde el lado verso.
3. El elemento de seguridad de acuerdo con una de las reivindicaciones 1 a 2, CARACTERIZADO PORQUE dicho sustrato transparente se selecciona del grupo que consiste en tereftalato de polietileno, policarbonato, cloruro de polivinilo, poliacrilatos, poliacrilonitrilo, poliestereno, polipropileno, tereftalato de poli-naftaleno y mezclas o copolímeros de los mismos.
4. El elemento de seguridad de acuerdo con una de las reivindicaciones 1 a 3, CARACTERIZADO PORQUE se lamina una película transparente sobre dicho recubrimiento con una imagen orientada magnéticamente.
5. El elemento de seguridad de acuerdo con la reivindicación 4, CARACTERIZADO PORQUE dicha película transparente se selecciona del grupo que consiste en tereftalato de polietileno, policarbonato, cloruro de polivinilo, poliacrilatos, poliacrilonitrilo, poliestereno, polipropileno, tereftalato de poli-naftaleno y mezclas o copolímeros de los mismos.
6. El elemento de seguridad de acuerdo con una de las reivindicaciones 1 a 5, CARACTERIZADO PORQUE dicho recubrimiento con una imagen orientada

magnéticamente comprende pigmentos de interferencia magnéticos ópticamente variables.

7. El elemento de seguridad de acuerdo con la reivindicación 6, CARACTERIZADO PORQUE dichos pigmentos de interferencia magnéticos ópticamente variables se seleccionan del grupo que consiste en pigmentos de interferencia magnéticos formados por películas delgadas por deposición al vacío, pigmentos de interferencia metálicos recubiertos, pigmentos de interferencia no metálicos recubiertos, pigmentos magnéticos con polímeros de cristal líquido y mezclas de los mismos.
8. El elemento de seguridad de acuerdo con la reivindicación 7, CARACTERIZADO PORQUE dichos pigmentos se seleccionan del grupo que consiste en pigmentos de interferencia magnéticos formados por películas delgadas por deposición al vacío de cinco capas y de siete capas.
9. El elemento de seguridad de acuerdo con una de las reivindicaciones 1 a 8, CARACTERIZADO PORQUE además comprende medios de marcación que se seleccionan del grupo que consiste en marcadores infrarrojos, marcadores fluorescentes, marcadores UV, marcadores fosforescentes, marcadores magnéticos, marcadores forenses y mezclas de los mismos.
10. El elemento de seguridad de acuerdo con una de las reivindicaciones 1 a 9, CARACTERIZADO PORQUE además comprende otros elementos de seguridad del grupo que se seleccionan del grupo que consiste en hologramas, relieves grabados, marcas distintivas u combinaciones de los mismos elementos.
11. El elemento de seguridad de acuerdo con una de las reivindicaciones 1 a 10, CARACTERIZADO PORQUE además comprende elementos de cambio de

color, tales como un efecto de conmutación óptica o una imagen del tipo *rolling bar*.

12. Un proceso para producir un elemento de seguridad de acuerdo con una de las reivindicaciones 1 a 11, CARACTERIZADO PORQUE comprende los pasos de
 - a. aplicar una composición de recubrimiento que comprende pigmentos que se orientan en forma magnética a una superficie sustrato transparente,
 - b. orientar las partículas magnéticas del pigmento en la composición del recubrimiento aplicado en el paso a) mediante la aplicación de un campo magnético, y
 - c. curar/secar la composición del recubrimiento orientado del paso b) para fijar las partículas en la posición orientada.
13. El proceso de acuerdo con la reivindicación 12, CARACTERIZADO PORQUE además comprende el paso de laminar una película transparente sobre dicho recubrimiento con una imagen inducida magnéticamente.
14. El proceso de acuerdo con una de las reivindicaciones 12 o 13, CARACTERIZADO PORQUE dicho paso de orientación b) se realiza simultáneamente con dicho paso de recubrimiento a).
15. El proceso de acuerdo con una de las reivindicaciones 12 o 13, CARACTERIZADO PORQUE dicho paso de orientación b) se realiza a continuación de dicho paso de recubrimiento a).
16. El proceso de acuerdo con una de las reivindicaciones 12 a 15, CARACTERIZADO PORQUE dicho paso de curado/secado c) se realiza mediante un proceso que se selecciona del grupo que consiste en los procesos de evaporación física, curado UV, reticulación oxidativa, entrecruzamiento químico, curado por haz de electrones o cualquier combinación de los mismos.

17. El proceso de acuerdo con una de las reivindicaciones 12 a 16, CARACTERIZADO PORQUE dicho paso a) se realiza por medio de un proceso de impresión que se selecciona del grupo que consiste en impresión calcográfica con plancha de cobre intaglio, impresión flexográfica, impresión en huecograbado, serigrafía o recubrimiento por rodillos.
18. El uso de un elemento de seguridad de acuerdo con una de las reivindicaciones 1 a 11 CARACTERIZADO PORQUE es para documentos de seguridad tales como billetes de banco, tarjetas de crédito, tarjetas de acceso, credenciales de seguridad, documentos de valor, derechos o de identidad, boletos para transporte, billetes de lotería, entradas para eventos, cintas fiscales, hilos de seguridad, etiquetas, películas, cintas o aplicaciones para la seguridad del producto.
19. Un documento tal como un billete de banco, una tarjeta de crédito, una tarjeta de acceso, una credencial de seguridad, un documento de valor, derechos o de identidad, un boleto para transporte, un billete de lotería, una entrada para un evento, una cinta fiscal, un hilo de seguridad, una etiqueta, una película, una cinta abre fácil o una aplicación para la seguridad del producto CARACTERIZADO PORQUE dicho documento comprende al menos un elemento de seguridad de acuerdo con una de las reivindicaciones 1 a 11.

RECUBRIMIENTO CON UNA IMAGEN ORIENTADA EN UN SUSTRATO TRANSPARENTE

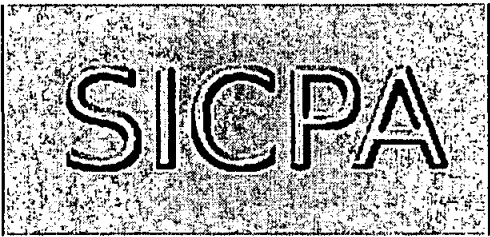
RESUMEN

Un elemento de seguridad que comprende un sustrato transparente y un recubrimiento que forma una imagen orientada magnéticamente en dicho sustrato, en donde dicho recubrimiento con una imagen se diseña preferiblemente tal como para mostrar un efecto tridimensional donde aparece respectivamente un relieve en positivo o en negativo si se lo observa respectivamente desde el lado recto o desde el lado verso.

El elemento de seguridad se puede identificar fácilmente a simple vista, con solo girar el documento y observar cualquiera de los lados de la imagen que depende del ángulo de visión. Por otra parte, el elemento de seguridad no se puede reproducir escaneando o copiando el documento.

Fig. 1

a) vista del recto



b) vista del verso

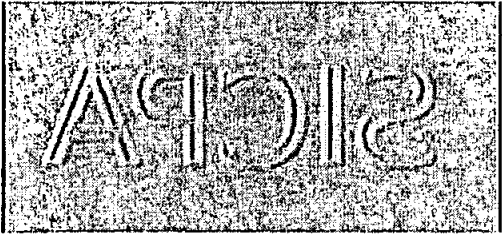


FIG. 2

a) escaneo de la vista del recto

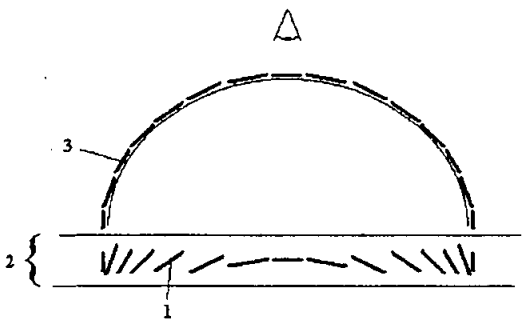


b) escaneo de la vista del verso

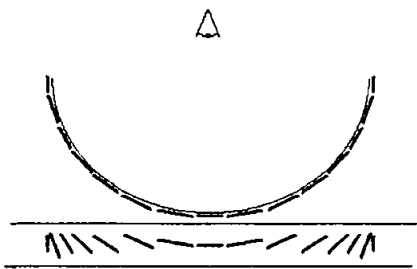


FIG. 3

a) vista del recto



b) vista del verso



PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PSIC112WO		FOR FURTHER ACTION		See Form PCT/PEA/416
International application No. PCT/EP2007/056863		International filing date (day/month/year) 06.07.2007		Priority date (day/month/year) 19.07.2006
International Patent Classification (IPC) or national classification and IPC INV. B42D15/10				
Applicant SICPA HOLDING S.A.				
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 2. This REPORT consists of a total of <u>5</u> sheets, including this cover sheet. 3. This report is also accompanied by ANNEXES, comprising: a. ☐ sent to the applicant and to the International Bureau) a total of sheets, as follows: ☐ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). ☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. b. ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).				
4. This report contains indications relating to the following items: ☒ Box No. I Basis of the report ☐ Box No. II Priority ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability ☐ Box No. IV Lack of unity of invention ☒ Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement ☐ Box No. VI Certain documents cited ☐ Box No. VII Certain defects in the international application ☐ Box No. VIII Certain observations on the international application				
Date of submission of the demand 2008-03-22		Date of completion of this report 20.10.2008		
Name and mailing address of the international preliminary examining authority:  European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016		Authorized officer Evans, Andrew Telephone No. +31 70 340-3580		



SA

**INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY**

International application No.
PCT/EP2007/056863

Box No. I Basis of the report

1. With regard to the **language**, this report is based on
- ☒ the international application in the language in which it was filed
 - ☐ a translation of the international application into , which is the language of a translation furnished for the purposes of:
 - ☐ international search (under Rules 12.3(a) and 23.1(b))
 - ☐ publication of the international application (under Rule 12.4(a))
 - ☐ international preliminary examination (under Rules 55.2(a) and/or 55.3(a))
2. With regard to the **elements*** of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):*

Description, Pages

1-10 as originally filed

Claims, Numbers

1-19 as originally filed

Drawings, Sheets

1/3-3/3 as originally filed

- ☐ a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing
3. ☐ The amendments have resulted in the cancellation of:
- ☐ the description, pages
 - ☐ the claims, Nos.
 - ☐ the drawings, sheets/figs
 - ☐ the sequence listing (*specify*):
 - ☐ any table(s) related to sequence listing (*specify*):
4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
- ☐ the description, pages
 - ☐ the claims, Nos.
 - ☐ the drawings, sheets/figs
 - ☐ the sequence listing (*specify*):
 - ☐ any table(s) related to sequence listing (*specify*):
5. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 70.2 (e)).

SS

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes: Claims	<u>1-19</u>
	No: Claims	
Inventive step (IS)	Yes: Claims	<u>1-19</u>
	No: Claims	
Industrial applicability (IA)	Yes: Claims	<u>1-19</u>
	No: Claims	

2. Citations and explanations (Rule 70.7):

see separate sheet

Re Item V.

1) Reference is made to the following document; the numbering will be adhered to in the rest of the procedure:

D1: US 2004/051297 A1 (RAKSHA VLADIMIR P [US] ET AL) 18 March 2004 (2004-03-18)

1) Document D1 is regarded as being the closest prior art to the subject matter of independent claim 1. It discloses:
Security element comprising a magnetically oriented image coating on a substrate. (cf. part of claim 1 of the application)

The subject matter of claim 1 differs from D1 in that the substrate is transparent.

The subject matter of claim 1 is therefore new and meets the requirements of Article 33(2) PCT.

2) The problem to be solved by the present invention may therefore be regarded as:
improving the security against forgery of security elements.
This problem is solved by having a transparent substrate.

3) The solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Art 33(3) PCT) for the following reasons:
No available document shows the claimed solution to this problem. Nothing appears to lead a person skilled in the art to the claimed solution.

4) The analysis of paragraphs 1-3 applies mutatis mutandis to process claim 12 and independent claims 18 and 19, which therefore meet the requirements of Articles 33(2) and (3) PCT.

5) Claims 2-11, 13-17 are dependent on claims 1 and 12, and as such also meet the requirements of Articles 33(2) and (3) PCT.

XXXXXXXXXXXXXXXXXXXXXXXXXXXX

57

**INTERNATIONAL PRELIMINARY
REPORT ON PATENTABILITY
(SEPARATE SHEET)**

International application No.

PCT/EP2007/056863

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

PCT REQUEST

Print Out (Original in Electronic Form)

0	For receiving Office use only	
0-1	International Application No.	
0-2	International Filing Date	
0-3	Name of receiving Office and "PCT International Application".	
0-4	Form PCT/RO/101 PCT Request	
0-4-1	Prepared Using	PCT Online Filing Version 3.5.000.176 MT/FOP 20020701/0.20.4rc.2.7
0-5	Petition The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty	
0-6	Receiving Office (specified by the applicant)	European Patent Office (EPO) (RO/EP)
0-7	Applicant's or agent's file reference	PSIC112WO
I	Title of Invention	ORIENTED IMAGE COATING ON TRANSPARENT SUBSTRATE
II	Applicant	
II-1	This person is	applicant only
II-2	Applicant for	all designated States except US
II-4	Name	SICPA HOLDING S.A.
II-5	Address	Avenue de Florissant 41 1008 Prilly Switzerland
II-6	State of nationality	CH
II-7	State of residence	CH
II-8	Telephone No.	021 627 55 55
II-9	Facsimile No.	021 627 54 40
II-11	Applicant's registration No. with the Office	0529163.8

PCT REQUEST

Print Out (Original in Electronic Form)

III-1	Applicant and/or inventor	
III-1-1	This person is	applicant and inventor
III-1-2	Applicant for	US only
III-1-4	Name (LAST, First)	DESPLAND, Claude-Alain
III-1-5	Address	Avenue Gratta-Paille 7 1018 Lausanne Switzerland
III-1-6	State of nationality	CH
III-1-7	State of residence	CH
III-2	Applicant and/or inventor	
III-2-1	This person is	applicant and inventor
III-2-2	Applicant for	US only
III-2-4	Name (LAST, First)	SCHMID, Mathieu
III-2-5	Address	Rue du Vallon 10 1005 Lausanne Switzerland
III-2-6	State of nationality	CH
III-2-7	State of residence	CH
III-3	Applicant and/or inventor	
III-3-1	This person is	applicant and inventor
III-3-2	Applicant for	US only
III-3-4	Name (LAST, First)	DEGOTT, Pierre
III-3-5	Address	Chemin des Falaises 15 1023 Crissier Switzerland
III-3-6	State of nationality	FR
III-3-7	State of residence	CH
III-4	Applicant and/or inventor	
III-4-1	This person is	applicant and inventor
III-4-2	Applicant for	US only
III-4-4	Name (LAST, First)	MÜLLER, Edgar
III-4-5	Address	Rue P.-A. de Faucigny 7 1700 Fribourg Switzerland
III-4-6	State of nationality	CH
III-4-7	State of residence	CH

PCT REQUEST

Print Out (Original in Electronic Form)

III-5	Applicant and/or inventor	
III-5-1	This person is	applicant and inventor
III-5-2	Applicant for	US only
III-5-4	Name (LAST, First)	STICHELBERGER, Albert
III-5-5	Address	Grand-Rue 25 1110 Morges Switzerland
III-5-6	State of nationality	CH
III-5-7	State of residence	CH
IV-1	Agent or common representative; or address for correspondence	
	The person identified below is hereby/ has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:	agent
IV-1-1	Name (LAST, First)	HEPP, Dieter
IV-1-2	Address	Friedtalweg 5 9500 Wil Switzerland
IV-1-3	Telephone No.	071 913 95 55
IV-1-4	Facsimile No.	071 913 95 56
IV-1-5	e-mail	mail@Hepp.ch
IV-1-6	Agent's registration No.	025444.1
IV-2	Additional agent(s)	additional agent(s) with same address as first named agent
IV-2-1	Name(s)	WENGER, René (049073.0); MÜLLER, Christoph (088221.7); DR. WELCH, Andreas (095562.5); DR. WILMING, Martin (1.8)
V	DESIGNATIONS	
V-1	The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents.	
VI-1	Priority claim of earlier regional application	
VI-1-1	Filing date	19 July 2006 (19.07.2006)
VI-1-2	Number	06117451.2
VI-1-3	Regional Office	EP

PCT REQUEST

Print Out (Original in Electronic Form)

VI-2	Priority document request The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s):	VI-1	
VII-1	International Searching Authority Chosen	European Patent Office (EPO) (ISA/EP)	
VII-2	Request to use results of earlier search; reference to that search		
VII-2-1	Date	19 July 2006 (19.07.2006)	
VII-2-2	Number	06117451.2	
VII-2-3	Country (or regional Office)	EP	
VIII	Declarations	Number of declarations	
VIII-1	Declaration as to the identity of the inventor	-	
VIII-2	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent	-	
VIII-3	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application	-	
VIII-4	Declaration of inventorship (only for the purposes of the designation of the United States of America)	-	
VIII-5	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	-	
IX	Check list	number of sheets	electronic file(s) attached
IX-1	Request (including declaration sheets)	5	✓
IX-2	Description	10	✓
IX-3	Claims	4	✓
IX-4	Abstract	1	✓
IX-5	Drawings	3	✓
IX-7	TOTAL	23	
	Accompanying Items	paper document(s) attached	electronic file(s) attached
IX-8	Fee calculation sheet	-	✓
IX-17	PCT-SAFE physical media	-	-
IX-19	Figure of the drawings which should accompany the abstract	1	
IX-20	Language of filing of the international application	English	

PCT REQUEST

Print Out (Original in Electronic Form)

X-1	Signature of applicant, agent or common representative	
X-1-1	Name (LAST, First)	
X-1-2	Name of signatory	
X-1-3	Capacity	

FOR RECEIVING OFFICE USE ONLY

10-1	Date of actual receipt of the purported international application	
10-2	Drawings:	
10-2-1	Received	
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application	
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/EP
10-6	Transmittal of search copy delayed until search fee is paid	

FOR INTERNATIONAL BUREAU USE ONLY

11-1	Date of receipt of the record copy by the International Bureau	
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PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PSIC112WO	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/EP2007/056863	International filing date (day/month/year) 06/07/2007	(Earliest) Priority Date (day/month/year) 19/07/2006
Applicant SICPA HOLDINGS S.A.		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of:

- ☒ the international application in the language in which it was filed
☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b. ☐ This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6bis(a)).

c. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box No. II)

3. ☐ **Unity of invention is lacking** (see Box No. III)

4. With regard to the **title**,

- ☒ the text is approved as submitted by the applicant
☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

- ☒ the text is approved as submitted by the applicant
☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 1
☒ as suggested by the applicant
☐ as selected by this Authority, because the applicant failed to suggest a figure
☐ as selected by this Authority, because this figure better characterizes the invention
b. ☐ none of the figures is to be published with the abstract

INTERNATIONAL SEARCH REPORT

International application No

PCT/EP2007/056863

A. CLASSIFICATION OF SUBJECT MATTER
INV. B42D15/10 B42D15/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
B42D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 650 042 A (JDS UNIPHASE CORP [US]) 26 April 2006 (2006-04-26) paragraphs [0011], [0014], [0025], [0038]; figures 1,2 -----	1,6-8, 12,15-19
X	US 2004/051297 A1 (RAKSHA VLADIMIR P [US] ET AL) 18 March 2004 (2004-03-18) cited in the application paragraphs [0054] - [0061]; figures 1a,1b -----	1,2,6-8, 12,15-19
A	US 2002/160194 A1 (PHILLIPS ROGER W [US] ET AL) 31 October 2002 (2002-10-31) cited in the application the whole document -----	1
A	EP 1 042 130 B1 (SECURENCY PTY LTD [AU]) 1 March 2006 (2006-03-01) the whole document -----	1
-/--		

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

14 February 2008

Date of mailing of the international search report

22/02/2008

Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Evans, Andrew

INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2007/056863

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 186 944 A (PEARCE RALPH R [GB]) 5 February 1980 (1980-02-05) the whole document -----	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP2007/056863

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1650042	A	26-04-2006	CA 2523648 A1	20-04-2006
			KR 20060054115 A	22-05-2006
US 2004051297	A1	18-03-2004	US 2005106367 A1	19-05-2005
US 2002160194	A1	31-10-2002	CN 1505668 A	16-06-2004
			CN 1854204 A	01-11-2006
			EP 1412432 A2	28-04-2004
			JP 2005509691 T	14-04-2005
			WO 03000801 A2	03-01-2003
			US 2003143400 A1	31-07-2003
			US 2004028905 A1	12-02-2004
EP 1042130	B1	01-03-2006	AT 318720 T	15-03-2006
			WO 9856596 A1	17-12-1998
			DE 69833653 T2	10-08-2006
			EP 1042130 A1	11-10-2000
			NZ 501398 A	26-01-2001
			US 6403169 B1	11-06-2002
US 4186944	A	05-02-1980	NONE	

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

PCT

To:

see form PCT/ISA/220

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)

Date of mailing
(day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference
see form PCT/ISA/220

FOR FURTHER ACTION
See paragraph 2 below

International application No.
PCT/EP2007/056863

International filing date (day/month/year)
06.07.2007

Priority date (day/month/year)
19.07.2006

International Patent Classification (IPC) or both national classification and IPC
INV. B42D15/10 B42D15/00

Applicant
SICPA HOLDINGS S.A.

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:



European Patent Office - P.B. 5818 Patentlaan 2
NL-2280 HV Rijswijk - Pays Bas
Tel. +31 70 340 - 2040 Tx: 31 651 epo nl
Fax: +31 70 340 - 3016

Date of completion of
this opinion

see form
PCT/ISA/210

Authorized Officer

Evans, Andrew

Telephone No. +31 70 340-3580



63

Box No. I Basis of the opinion

1. With regard to the **language**, this opinion has been established on the basis of:
 - ☒ the international application in the language in which it was filed
 - ☐ a translation of the international application into , which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1 (b)).
2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43bis.1(a))
3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material:
 - ☐ a sequence listing
 - ☐ table(s) related to the sequence listing
 - b. format of material:
 - ☐ on paper
 - ☐ in electronic form
 - c. time of filing/furnishing:
 - ☐ contained in the international application as filed.
 - ☐ filed together with the international application in electronic form.
 - ☐ furnished subsequently to this Authority for the purposes of search.
4. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
5. Additional comments:

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/EP2007/056863

Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes: Claims	<u>3-5,9-11,13,14</u>
	No: Claims	<u>1,2,6-8,12,15-19</u>
Inventive step (IS)	Yes: Claims	<u>14</u>
	No: Claims	<u>1-13,15-19</u>
Industrial applicability (IA)	Yes: Claims	<u>1-19</u>
	No: Claims	

2. Citations and explanations

see separate sheet

Re Item V.

1) Reference is made to the following documents; the numbering will be adhered to in the rest of the procedure:

D1: EP-A-1 650 042 (JDS UNIPHASE CORP [US]) 26 April 2006 (2006-04-26)

D2: US 2004/051297 A1 (RAKSHA VLADIMIR P [US] ET AL) 18 March 2004 (2004-03-18)

2) The present application does not meet the requirements of Article 33 PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.

The document D2 discloses (the references in parentheses applying to this document): Security element comprising a transparent (page 3, para. 60, line 1) substrate and a magnetically oriented image coating on said substrate(abstract). (cf. claim 1 of the application)

The subject-matter of claim 1 is therefore not new (Article 33(2) PCT).

3) D1 also appears to disclose the subject matter of claim 1.

The present application does not meet the requirements of Article 33 PCT, because the subject-matter of claim 12 is not new in the sense of Article 33(2) PCT.

The document D1 discloses (the references in parentheses applying to this document):

A process for producing a security element according to one of claims 1 to 11, comprising the steps of

- a) applying a coating composition comprising magnetically orientable pigments to a transparent substrate surface,
- b) orienting the magnetic pigment particles in the applied coating composition of step a) by applying a magnetic field, and
- c) curing/drying the oriented coating composition of step b) to fix the particles in the oriented position (see paragraphs 28-33).(cf. claim 12 of the application)

The subject-matter of claim 12 is therefore not new (Article 33(2) PCT).

4) D2 also appears to disclose the subject matter of claim 12.

5) The present application does not meet the requirements of Article 33 PCT, because the

subject-matter of claim 18 is not new in the sense of Article 33(2) PCT.

The document D1 discloses (the references in parentheses applying to this document):

The use of a security element according to one of claims 1 to 11 for security documents such as banknotes (paragraph 25), credit cards, access cards, security badges, documents of value, rights or identity, transportation tickets, lottery tickets, event tickets, tax banderoles, security threads, labels, foils, strips or product security applications. (cf. claim 18 of the application)

The subject-matter of claim 18 is therefore not new (Article 33(2) PCT).

6) D2 also appears to disclose the subject matter of claim 18.

7) The present application does not meet the requirements of Article 33 PCT, because the subject-matter of claim 19 is not new in the sense of Article 33(2) PCT.

The document D1 discloses (the references in parentheses applying to this document):

A document such as a banknote (paragraph 25), a credit card, an access card, a security badge, a document of value, rights or identity, a transportation ticket, a lottery ticket, an event ticket, a tax banderole, a security thread, a label, a foil, a tear-strip or a product security application, wherein said document comprises at least one security element according to one of claims 1 to 11. (cf. claim 19 of the application)

The subject-matter of claim 19 is therefore not new (Article 33(2) PCT).

8) D2 also appears to disclose the subject matter of claim 19.

9) Dependent claims 2,6-8, and 15-17 appear not to be novel (Article 33(2) PCT). See the following passages from D1 and D2.

Claim 2: D2, para. 9 and 10;

claims 6 and 8: D1, para. 25;

claim 7: D1 para. 26;

claim 15: D1, para. 29, fig.1;

claim 16: D1, para. 38;

claim 17: D1, para. 2.

10) Claims 3-5,9-11 and 13 appear not to be inventive (Art.33(3) PCT).

11) The additional features of dependent claim 14 are not disclosed in their present form in

any of the documents cited in the search report. A new independent claim may be drafted to include these features.

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

From the INTERNATIONAL BUREAU

PCTNOTIFICATION CONCERNING
SUBMISSION OR TRANSMITTAL
OF PRIORITY DOCUMENT

(PCT Administrative Instructions, Section 411)

To:

EINGEGANGEN - RECEIVEDHEPP, Dieter
Friedtalweg 5
CH-9500 Wil
SUISSE

04. Sep. 2007

HEPP WENGER RYFFEL

Date of mailing (day/month/year) 29 August 2007 (29.08.2007)	
Applicant's or agent's file reference PSIC112WO	IMPORTANT NOTIFICATION
International application No. PCT/EP2007/056863	International filing date (day/month/year) 06 July 2007 (06.07.2007)
International publication date (day/month/year) Not yet published	Priority date (day/month/year) 19 July 2006 (19.07.2006)
Applicant SICPA HOLDING S.A. et al	

1. By means of this Form, which replaces any previously issued notification concerning submission or transmittal of priority documents, the applicant is hereby notified of the date of receipt by the International Bureau of the priority document(s) relating to all earlier application(s) whose priority is claimed. Unless otherwise indicated by the letters "NR", in the right-hand column or by an asterisk appearing next to a date of receipt, the priority document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
2. (If applicable) The letters "NR" appearing in the right-hand column denote a priority document which, on the date of mailing of this Form, had not yet been received by the International Bureau under Rule 17.1(a) or (b). Where, under Rule 17.1(a), the priority document must be submitted by the applicant to the receiving Office or the International Bureau, but the applicant fails to submit the priority document within the applicable time limit under that Rule, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
3. (If applicable) An asterisk (*) appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b) (the priority document was received after the time limit prescribed in Rule 17.1(a) or the request to prepare and transmit the priority document was submitted to the receiving Office after the applicable time limit under Rule 17.1(b)). Even though the priority document was not furnished in compliance with Rule 17.1(a) or (b), the International Bureau will nevertheless transmit a copy of the document to the designated Offices, for their consideration. In case such a copy is not accepted by the designated Office as the priority document, Rule 17.1(c) provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

Priority date	Priority application No.	Country or regional Office or PCT receiving Office	Date of receipt of priority document
19 July 2006 (19.07.2006)	06117451.2	EP	06 August 2007 (06.08.2007)

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Authorized officer

Agnes Wittmann-Regis

e-mail

Telephone No. +41 22 338 74 06

Facsimile No. +41 22 338 82 70

Form PCT/IB/304 (October 2005)

I/DDBAD2Q40

74

From the INTERNATIONAL BUREAU

PCTNOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

To:

HEPP, Dieter
Friedtalweg 5
CH-9500 Wil
SUISSE

EINGEGANGEN - RECEIVED

13. Nov. 2007

HEPP WENGER RYFFEL

Date of mailing (day-month-year) 02 November 2007 (02.11.2007)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference PSIC112WO	
International application No. PCT/EP2007/056863	International filing date (day-month-year) 06 July 2007 (06.07.2007)

1. The following indications appeared on record concerning:

☒ the applicant ☒ the inventor ☐ the agent ☐ the common representative

Name and Address DESPLAND, Claude-Alain Avenue Gratta-Paille 7 CH-1018 Lausanne Switzerland	State of Nationality CH	State of Residence CH
	Telephone No.	
	Facsimile No.	
	Teleprinter No.	

2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:

☐ the person ☐ the name ☒ the address ☐ the nationality ☐ the residence

Name and Address DESPLAND, Claude-Alain Chemin de la Cure 8 CH-1008 Prilly Switzerland	State of Nationality CH	State of Residence CH
	Telephone No.	
	Facsimile No.	
	Teleprinter No.	

3. Further observations, if necessary:

4. A copy of this notification has been sent to:

☒ the receiving Office	☐ the designated Offices concerned
☒ the International Searching Authority	☐ the elected Offices concerned
☐ the International Preliminary Examining Authority	☐ other:

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 89 70	Authorized officer Nyberg Henrik e-mail pt06.pct@wipo.int Telephone No. +41 22 338 74 06
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78

From the INTERNATIONAL BUREAU

PCTNOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

To:

HEPP, Dieter
Friedtalweg 5
CH 9500 Wil

EINGEGANGEN - RECEIVED

Date of mailing (day/month/year) 21 November 2007 (21.11.2007)	04. Dec. 2007
Applicant's or agent's file reference PSIC112WO	HEPP WENGER RYFFEL
International application No. PCT/EP2007/056863	IMPORTANT NOTIFICATION
International filing date (day/month/year) 06 July 2007 (06.07.2007)	

1. The following indications appeared on record concerning:

☒ the applicant ☒ the inventor ☐ the agent ☐ the common representative

Name and Address

STICHELBERGER, Albert
Grand-Rue 25
CH-1110 Morges
Switzerland

State of Nationality

CH

State of Residence

CH

Telephone No.

Facsimile No.

Teleprinter No.

2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:

☐ the person ☐ the name ☒ the address ☐ the nationality ☐ the residence

Name and Address

STICHELBERGER, Albert
Rue du Bugnon 33
CH-1020 Renens
Switzerland

State of Nationality

CH

State of Residence

CH

Telephone No.

Facsimile No.

Teleprinter No.

3. Further observations, if necessary:

4. A copy of this notification has been sent to:

- | | |
|--|---|
| ☒ the receiving Office | ☐ the designated Offices concerned |
| ☒ the International Searching Authority | ☐ the elected Offices concerned |
| ☐ the International Preliminary Examining Authority | ☐ other: |

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Authorized officer

Castillo Kathy

e-mail pt06.pct@wipo.int

Telephone No. +41 22 338 74 06

Facsimile No. +41 22 338 89 70

76

CORRECTED VERSION

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

To:

HEPP, Dieter
Friedtalweg 5
CH-9500 Wil
SUISSE

EINGEGANGEN - RECEIVED

21 AUG 2008

HEPP WENGER RYFFEL

Date of mailing (day/month/year) 14 August 2008 (14.08.2008)	
Applicant's or agent's file reference PSIC112WO	IMPORTANT NOTIFICATION
International application No. PCT/EP2007/056863	International filing date (day/month/year) 06 July 2007 (06.07.2007)

1. The following indications appeared on record concerning:		
☒ the applicant	☒ the inventor	☐ the agent
☐ the common representative		
Name and Address STICHELBERGER, Albert Grand-Rue 25 CH-1110 Morges Switzerland	State of Nationality CH	State of Residence CH
	Telephone No.	
	Facsimile No.	
	E-mail address	
2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:		
☐ the person	☐ the name	☒ the address
☐ the nationality		
☒ the residence		
Name and Address STICHELBERGER, Albert Radmayrweg 2 A-4060 Leonding Austria	State of Nationality CH	State of Residence AT
	Telephone No.	
	Facsimile No.	
	E-mail address	
	☐ Notifications by e-mail authorized	
3. Further observations, if necessary:		
4. A copy of this notification has been sent to:		
☒ the receiving Office	☐ the designated Offices concerned	
☐ the International Searching Authority	☒ the elected Offices concerned	
☒ the International Preliminary Examining Authority	☐ other:	

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Rochaix Thomas
Facsimile No. +41 22 338 89 70	e-mail pt06.pct@wipo.int
	Telephone No. +41 22 338 74 06

77

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO



No. 08-133318- -00000-0000

Fecha: 2008-12-16 14:48:08 Dep. 2020 NUECREACION
Tra. 11 PATENTE IYII Eje: 379 FASE NACIONAL II
Act. 411 PRESENTACION Folios: 77



Industria y Comercio
SUPERINTENDENCIA

**REQUISITOS MINIMOS PARA ADMISION A TRAMITE
PCT**

PATENTE DE INVENCION

☒

MODELO DE UTILIDAD ☐

- ◆ Indicación de que se solicita la concesión de una patente ☒
- ◆ Datos de identificación del solicitante o de la persona que presenta la solicitud ☒
- ◆ Descripción de la invención ☒
- ◆ Dibujos de ser estos pertinentes ☐
- ◆ Comprobante de pago de las tasas establecidas ☒

COMPLETA ☐

INCOMPLETA ☐

DISEÑO INDUSTRIAL ☐

- ◆ Indicación de que se solicita el registro de Diseño Industrial ☐
- ◆ Datos de identificación del solicitante o de la persona que presenta la solicitud ☐
- ◆ Representación gráfica y fotográfica del Diseño Industrial o muestra del material que incorpora el diseño ☐
- ◆ Comprobante de pago de las tasas establecidas ☐

COMPLETA ☐

INCOMPLETA ☐

ESQUEMA DE TRAZADO ☐

- ◆ Indicación de que se solicita el registro de un Esquema de Trazado ☐
- ◆ Datos de identificación del solicitante o de la persona que presenta la solicitud ☐
- ◆ Representación gráfica del esquema trazado ☐
- ◆ Comprobante de pago de las tasas establecidas ☐

COMPLETA ☐

INCOMPLETA ☐

Claudio M. Neiva Ortiz
Firma Responsable

Fecha _____

Carrera 13 No. 27-00 Piso 5, 7 y 10
Conmutador: 3 82 08 40
Fax: 350 52 20
E-mail: info@slc.gov.co
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Bogotá, D.C., Colombia

REPUBLICA DE COLOMBIA
SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO

Bogotá,
2020

Doctor(a)
RODRIGUEZ D` ALEMAN DILIA MARIA
Apoderado(a) y/o Representante de
NOMA HOLDING S. A.

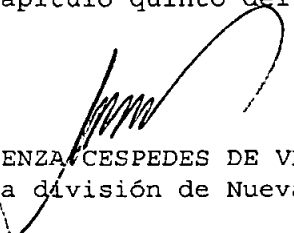
REFERENCIA	Radicación No.	8 133318
	Solicitud internacional	PCT/EP2007/056863
	Fecha inicio fase nacional	19/02/2009
	Trámite	11
	Evento	379
	Actuación	430
	Oficio No.	3909

Como resultado del examen de forma, realizado con fundamento en el artículo 38 de la Decisión 486 de la Comisión de la Comunidad Andina, artículo 27 del Tratado de Cooperación en Materia de Patentes (PCT), regla 51 bis del Reglamento y Circular Única de la Superintendencia de Industria y Comercio, se le comunica que:

1. La solicitud no contiene la copia del documento en que consta la cesión del derecho a la patente del inventor al solicitante o a su causante, conforme a lo establecido por el artículo 26 literal k) de la Decisión 486 de la Comisión de la Comunidad Andina. Cuando se trate de documentos otorgados en el extranjero, estos deberán legalizarse de conformidad con lo dispuesto por los artículos 259 y 260 del Código de Procedimiento Civil. Cuando se trate de las declaraciones a que hace referencia la Regla 4.17 ii) del Tratado de Cooperación en Materia de Patentes PCT., el alcance de las tales declaraciones se determinará según indiquen claramente una cesión de derechos del inventor al solicitante o su causante, de conformidad con lo dispuesto en el numeral 5.2.15 del Capítulo Quinto, Título X de la Circular Única de Superintendencia de Industria y Comercio.

En cumplimiento de lo dispuesto por el artículo 39 de la Decisión 486, se le requiere para que dentro del término de dos meses siguientes a la fecha de notificación del presente oficio, complete los requisitos anteriormente enunciados. En caso de no dar cumplimiento al presente requerimiento, la solicitud se considerará abandonada y perderá su prelación.

Notifíquese el presente oficio conforme a lo dispuesto en el numeral 5.2, literal e), del capítulo quinto del título primero de la Circular Unica No.10 de 2001.


ALIX CARMENZA CESPEDES DE VERGEL
Jefe de la división de Nuevas Creaciones

El anterior requerimiento fue notificado por fijación en lista de
fecha 03 ABR. 2009
adpall