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Search 15: 12 and 9 (Results 159)

1) Family number: 12970001 (US2003124436A)

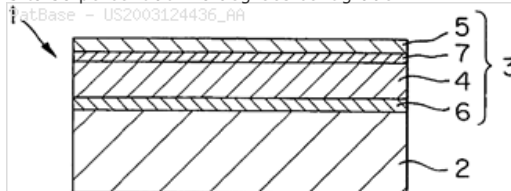
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Title: HOLOGRAM TRANSFER FILM

Abstract: Disclosed is a hologram transfer film which can realize easy and good transfer of a hologram and, at the same time, can realize stable transfer of the hologram in a transfer process. The hologram transfer film comprises: a substrate film; and a transfer layer provided on the substrate film, the transfer layer comprising a hologram-forming layer and a heat-sensitive adhesive layer provided in that order on the substrate film, the hologram-forming layer having a breaking strain of 0.5 to 15 percent at 25 degrees centigrade and a breaking strain of 0.5 to 30 percent at 120 degrees centigrade.

Classifications:

International (IPC 8-9): B42D15/00 B42D15/10 B42D25/328 B44C1/165 C08F290/06 C08F299/00 D21H21/42 G02B5/18 G03H1/00 G03H1/02 G03H1/04 G03H1/18 (Advanced/Invention); B42D25/328 G03H1/00 (Advanced/Non-invention); B42D15/10 B44C1/165 C08F290/06 C08F299/00 D21H21/40 G02B5/18 G03H1/02 G03H1/04 G03H1/18 (Core/Invention)
International (IPC 1-7): B42D15/10 B44C1/165 C08F290/06 C08F299/00 D21H21/42 G02B5/18 G03H1/02 G03H1/04 G03H1/18
CPC: B42D25/328 G03H1/0252 G03H1/0011 G03H1/0248 G03H2240/50 G03H2250/10 G03H2250/12 G03H2260/12
European: B42D15/10D G03H1/02 G03H1/02L S03H1/00A1 S03H1/02H2 S03H240/50 S03H250/10 S03H250/12 S03H260/12
US: 156/234 156/234S 283/86 283/86S 359/2 359/2S 359/3 385/86 430/1 430/1P 430/2 430/2S



Family:

Publication number	Publication date	Application number	Application date
DE60049507 D1	20170105	DE20006049507	20000118
EP1022625 A1	20000726	EP20000100238	20000118
EP1022625 B1	20170628	EP20000100238	20000118
EP2309339 A1	20110413	EP20100010585	20000118
EP2309339 B1	20161130	EP20100010585	20000118
JP2000272295 A2	20001003	JP20000010754	20000119
JP2000273129 A2	20001003	JP20000010746	20000119
JP4260323 B2	20090430	JP20000010754	20000119
US2003124436 AA	20030703	US20020265605	20021008
US6495295 BA	20021217	US20000487347	20000119
US7141336 BB	20061128	US20020265605	20021008

Priority:

JP19990010475 19990119 JP19990010476 19990119 EP20000100238 20000118
EP20100010585 20000118 JP20000010746 20000119 JP20000010754 20000119
US20000487347 20000119 US20020265605 20021008

Probable Assignee: DAINIPPON PRINTING CO LTD

Assignee(s): (std): DAINIPPON PRINTING CO LTD

Assignee(s): DAI NIPPON PRINTING CO ; DAI NIPPON PRINTING CO LTD

Inventor(s): (std): SHIODA SATOSHI ; HOJO MIKIKO ; OTAKI HIROYUKI ; UEDA KENJI ; TOSHINE TETSUYA ; TONE TETSUYA

Inventor(s): TOSHINE TETSUYA DAI NIPPON PRINTING COLTD ; SHIODA SATOSHI DAI NIPPON PRINTING COLTD ; UEDA KENJI DAI NIPPON PRINTING COLTD ; HOJO MIKIKO DAI NIPPON PRINTING COLTD ; OTAKI HIROYUKI DAI NIPPON PRINTING COLTD

Agent(s): MUELLER BORE AND PARTNER PATENTANWALTE PARTG MBB; MUELLER BORE AND PARTNER PATENTANWALTE; OLIFF AND BERRIDGE PLC

Designated states: DE FR GB

2) Family number: 8584017 (WO9531337A1)

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Title: IMAGE-TRANSFER PROCESS

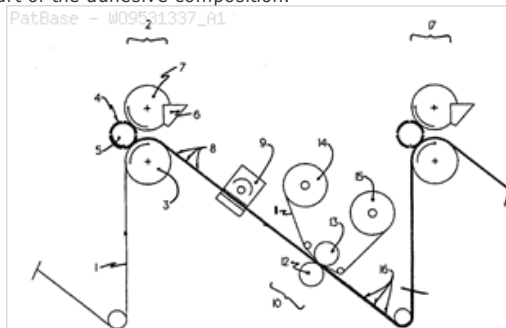
Abstract: Decorative and/or security media particles, in liquid or solid form, are transferred without the use of heat or high pressures to a substrate (1) by first printing a plurality of discrete raised semi-rigidized sharp-edged adhesive images (8) onto the surface of the substrate, using some form of radiation (9) to render the adhesive tacky, and then bringing particles of the media into contact with the surface of the tacky images whereby the media particles are permanently retained by the images on the substrate. Alternatively, the media particles may be part of the adhesive composition.

Classifications:

International (IPC 8-9): B41F19/06 B41M3/00 B41M3/12 B41M3/14 B44C1/16 B44C1/165 B44C1/17 (Advanced/Invention); B44C1/165 (Advanced/Non-invention); B41F19/00 B41M3/00 B41M3/12 B41M3/14 B44C1/16 B44C1/165 B44C1/17 (Core/Invention)

International (IPC 1-7): B41M3/12 B41M3/14 B44C1/165 B44C1/17
CPC: B41F19/062 B41M3/006 B41M3/12 B41M3/14 B41P2219/51 B44C1/1733

European: B41F19/06B B41M3/00P B41M3/12 B41M3/14 B44C1/17H L41P219/510



Family:

Publication number	Publication date	Application number	Application date
AU199524043 A1	19951205	AU19950024043	19950512
CA2190113 AA	19961112	CA19952190113	19950512
EP0758956 A1	19970226	EP19950917872	19950512
GB9409629 A0	19940706	GB19940009629	19940513
JP10500368 T2	19980113	JP19950529260T	19950512
WO9531337 A1	19951123	WO1995CA00285	19950512

Priority:

GB19940009629 19940513 WO1995CA00285 19950512

Probable Assignee: PRITTIE ALLAN R

Assignee(s): (std): ALLAN R PRITTIE ; PRITTIE ALLAN R

Inventor(s): (std): PRITTIE ALLAN R

Inventor(s): ALLAN R PRITTIE

Agent(s): SIM AND MCBURNEY

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

3) Family number: 41615027 (EP2081058A2)

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Title: BARRIER STRUCTURE HAVING A SURFACE RELIEF

Abstract: A structure (520,560,580...) comprising: a template layer having a first surface having an optically active surface relief; and an epibarrier layer provided over the first surface of the template layer, the epibarrier layer having an optically active surface relief corresponding substantially to that of the first surface of the template layer, wherein the template layer comprises a plurality of particles arranged to span substantially an entire thickness of the template layer and to provide said optically active surface relief.

Classifications:

International (IPC 8-9): B32B15/00 B32B3/00 B41M3/14 B42D15/00 B42D15/02 B44F1/06 B65D65/00 G02B5/02 G03H1/00 (Advanced/Invention); B42D G02B (Subclass/Invention)

CPC: B42D15/025 B44F1/06 G02B5/0221 G02B5/0252 G02B5/0278 B32B3/00 B32B15/00 B65D65/00 G03H1/00 B41M3/14 B42D15/00

European: B32B15/00 B32B3/00 B41M3/14 B42D15/00 B42D15/02D B44F1/06 B65D65/00 G02B5/02D2N G02B5/02D6 G02B5/02U2 G03H1/00

Figure 1

Figure 1A - PRIOR ART

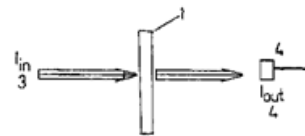
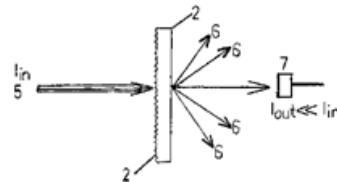


Figure 1B - PRIOR ART



29

Family:

Publication number	Publication date	Application number	Application date
EP2081058 A2	20090722	EP20090150663	20090115
EP2081058 A3	20121205	EP20090150663	20090115
EP2081058 B1	20190821	EP20090150663	20090115
GB200800716 A0	20080220	GB20080000716	20080116
GB200817179 A0	20081029	GB20080017179	20080919
GB200817180 A0	20081029	GB20080017180	20080919
GB2456611 A1	20090722	GB20080017179	20080919
GB2456611 B2	20121226	GB20080017179	20080919
GB2456612 A1	20090722	GB20080017180	20080919
GB2456612 B2	20130213	GB20080017180	20080919
ZA200808426 A	20100428	ZA20080008426	20081002

Priority:

GB20080000716 20080116 GB20080017179 20080919 GB20080017180 20080919

Probable Assignee: DRINKWATER KENNETH J**Assignee(s):** (std): DRINKWATER KENNETH J ; HOLOGRAPHIC SECURITY INNOVATIO ; HOLOGRAPHIC SECURITY INNOVATIONS LTD**Assignee(s):** HOLOGRAPHIC SECURITY INNOVATIONS LIMITED**Inventor(s):** (std): DRINKWATER KENNETH JOHN**Inventor(s):** KENNETH JOHN DRINKWATER**Agent(s):** HARRISON GODDARD FOOTE; YEADON MARK; YEADON IP LTD**Designated states:** AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK TR**4) Family number: 1377029 (US4012552A)**

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Title: DECORATIVE METAL FILM HEAT TRANSFER DECALCOMANIA

Abstract: A receiving surface is decorated with a metal film in a pattern by applying an area of thin frangible metal to a temporary carrier having a release surface, printing an adhesive in the pattern desired for the metal on either the metal film or receiving surface, the area of the pattern being less than the area of the metal film, pressing and adhering the receiving surface and metal film together with the adhesive therebetween, and stripping away the carrier. The metal over the adhesive remains on the receiving surface to provide the decorative metal pattern and the balance is carried away with the carrier. The receiving surface can be a final surface to be decorated or can be the exposed surface of an ink design heat transfer. In the latter case, a combined heat transfer having both a decorative metal film pattern and a multicolor ink design can be provided by coating the receiving surface, after transfer of the metal film pattern thereto, with a second adhesive over both the metal pattern and ink design.

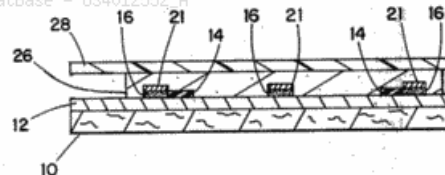
Classifications:**International (IPC 8-9):** B41M3/12 B44C1/14

B44C1/17 (Advanced/Invention);

B41M3/12 B44C1/00 B44C1/17 (Core/Invention)

International (IPC 1-7): B41M3/12 B44C1/16**CPC:** Y10S428/914 B44C1/14 B41M3/12 B44C1/1729

Y10T428/24843 Y10T428/2486 Y10T428/24876

European: B41M3/12 B44C1/14 B44C1/17F8**US:** 156/233 156/234 427/147 427/148 428/200 428/202 428/204 428/914**Family:**

Publication number	Publication date	Application number	Application date
US4012552 A	19770315	US19750556871	19750310

Priority:

US19750556871 19750310

Probable Assignee:

DENNISON MFG CO

Assignee(s): (std):

DENNISON MFG CO

Assignee(s):

DENNISON MANUFACTURING COMPANY

Inventor(s): (std):

WATTS TOM J

5) Family number: 65602043 (US2018311947A)

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Title: SHEET-FED STAMPING PRESS HAVING A FOIL LAMINATING UNIT

Abstract: There is described a sheet-fed stamping press (10ss) comprising a foil application unit (2ss) designed to allow transfer or lamination of foil material onto successive sheets (S), which foil material is fed to the foil application unit (2ss) in the form of a foil carrier (FC) supplied by means of a foil feeding system (3). The foil application unit (2ss) comprises a stamping cylinder (21) at least one circumferential stamping section (210) provided on a circumference of the stamping cylinder (21) and comprising successive stamping segments (211 ss; 211 **) distributed one after the other about the circumference of the stamping cylinder (21), the stamping cylinder (21) also acting as sheet-transporting cylinder and comprising multiple sheet holding units (21a) distributed about the circumference of the stamping cylinder (21) and designed to hold successive sheets (S) against the circumference of the stamping cylinder (21). The foil application unit (2ss) further comprises a plurality of counter-pressure units (25) distributed about a portion of the circumference of the stamping cylinder (21) and designed to press the successive sheets (S) and the foil carrier (FC) against an outer surface of the stamping segments (211 ss; 211 **), the foil carrier (FC) being supplied by the foil feeding system (3) between the sheets (S) and the stamping segments (211 ss; 211 **). Each counter-pressure unit (25) is designed as a cylinder unit (250, 255) provided with at least one circumferential pressing element (255) positioned to cooperate with the circumferential stamping section (210) of the stamping cylinder

Classifications:

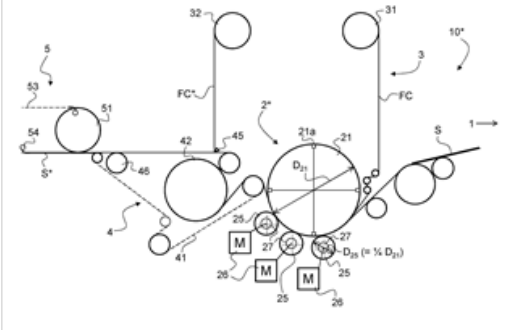
International (IPC 8-9): B30B3/00 B31F1/07 B41F B41F16/00 B41F19/00 B41F21/10 B41F3/00 (Advanced/Invention)

International (IPC 1-7): B41F16/00 B41F19/00

CPC: B41F16/0013 B41P2219/50 B41P2219/33 B41F16/0026 B41F16/0066 B41F19/001 B41F19/00 B31F1/07

US: 1/1 101/217

PatBase - US2018311947_AA



Family:

Publication number	Publication date	Application number	Application date
AU2016347908 AA	20180322	AU20160347908	20161103
AU2016347908 BB	20190815	AU20160347908	20161103
BR112018006632 A2	20181023	BR20181106632	20161103
CA2997891 AA	20180307	CA20162997891	20161103
CL2018000774 A1	20180608	CL20180000774	20180323
CN108136767 A	20180608	CN201680061362	20161103
CO20180004223 A2	20180710	CO20180004223	20180420
EP3165366 A1	20170510	EP20150193279	20151105
EP3370968 A1	20180912	EP20160805510	20161103
ID201809888 A	20180907	ID2018PID02779	20161103
IN201817010061 A	20180706	IN201817010061	20180319
JP2018533500 T2	20181115	JP20180518974T	20161103
MX2018005262 A1	20180801	MX20180005262	20161103
PH2018500845 A	20181029	PH20180500845	20180419
RU2683975 C1	20190403	RU20180112997	20161103
US2018311947 AA	20181101	US20160769620	20161103
WO17077478 A1	20170511	WO20161B56619	20161103
ZA201801429 A	20190731	ZA20180001429	20161103

Priority:

EP20150193279 20151105 WO20161B56619 20161103

Probable Assignee: KBA NOTASYS SA

Assignee(s): (std): KBA NOTASYS SA

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Inventor(s): (std): GYGI MATTHIAS ; KRIEGE BJOERN ; BAUER REGINA ; KRIEGE BJORN ; GYG MATTHAS ; BAUER REGNA ; KREGE BJOERN ; MATTHIAS GYGI ; REGINA BAUER ; BJOERN KRIEGE

Agent(s): PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; GOWLING WLG CANADA LLP; ESTUDIO CAREY LTDA; MAURICIO JARAMILLO CAMPUZANO; NOLL RONALD; KOENIG AND BAUER AG; GEORGE WIDJOJO; KITA AOYAMA INT PATENT BUREAU; NEVINPAT

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

Title: SHEET-FED STAMPING PRESS COMPRISING A FOIL LAMINATING UNIT

Abstract: There is described a sheet-fed stamping press (10ss) comprising a foil application unit (2ss) designed to allow transfer or lamination of foil material onto successive sheets (S), which foil material is fed to the foil application unit (2ss) in the form of a foil carrier (FC) supplied by means of a foil feeding system (3). The foil application unit (2ss) comprises a stamping cylinder (21) with at least one circumferential stamping section (210) provided on a circumference of the stamping cylinder (21) and comprising successive stamping segments (211ss; 211**) distributed one after the other about the circumference of the stamping cylinder (21), the stamping cylinder (21) also acting as sheet-transporting cylinder and comprising multiple sheet holding units (21a) distributed about the circumference of the stamping cylinder (21) and designed to hold successive sheets (S) against the circumference of the stamping cylinder (21). The foil application unit (2ss) further comprises a plurality of counter-pressure units (25) distributed about a portion of the circumference of the stamping cylinder (21) and designed to press the successive sheets (S) and the foil carrier (FC) against an outer surface of the stamping segments (211ss; 211**), the foil carrier (FC) being supplied by the foil feeding system (3) between the sheets (S) and the stamping segments (211ss; 211**). Each counter-pressure unit (25) is designed as a cylinder unit (250, 255) provided with at least one circumferential pressing element (255) positioned to cooperate with the circumferential stamping section (210) of the stamping cylinder (21), and the counter-pressure units (25) are driven into rotation by means of at least one dedicated drive (26).

Classifications:

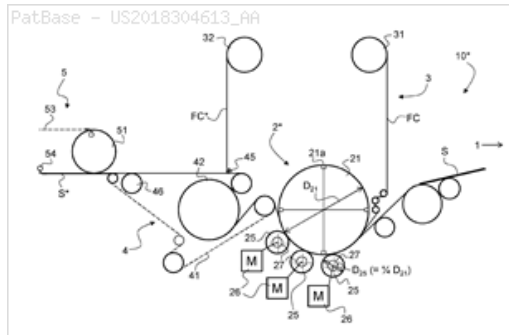
International (IPC 8-9): B31F1/07 B41F B41F16/00 B41F19/00 (Advanced/Invention)

International (IPC 1-7): B41F16/00 B41F19/00

CPC: B41F16/0013 B41F16/0026 B41F16/0066 B41F19/001

B41P2219/50 B31F1/07 B41F19/00

US: 1/1 101/25



Family:

Publication number	Publication date	Application number	Application date
AU2016347907 AA	20180322	AU20160347907	20161103
AU2016347907 BB	20180830	AU20160347907	20161103
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CA2997890 AA	20180307	CA20162997890	20161103
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CN108349238 A	20180731	CN201680061364	20161103
CO20180004221 A2	20180710	CO20180004221	20180420
EP3165365 A1	20170510	EP20150193276	20151105
EP3370967 A1	20180912	EP20160805509	20161103
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JP2018532618 T2	20181108	JP20180517342T	20161103
JP6542471 B2	20190710	JP20180517342T	20161103
MX2018005283 A1	20180801	MX20180005283	20161103
PH2018500844 A	20181029	PH20180500844	20180419
RU2684093 C1	20190403	RU20180112996	20161103
US2018304613 AA	20181025	US20160769598	20161103
WO17077477 A1	20170511	WO20161B56617	20161103
ZA201801431 A	20190529	ZA20180001431	20161103

Priority:

EP20150193276 20151105 WO20161B56617 20161103

Probable Assignee: KBA NOTASYS SA

Assignee(s): (std): KBA NOTASYS SA

Assignee(s): KOENIG AND BAUER NOTASYS SA ; KRIEGE BJORN ; BAUER REGINA ; GYGI MATTHIAS

Inventor(s): (std): GYGI MATTHIAS ; KRIEGE BJOERN ; BAUER REGINA ; KRIEGE BJORN ; GYG MATTHAS ; BAUER REGNA ; KREGE BJOERN ; MATTHIAS GYGI ; REGINA BAUER ; BJOERN KRIEGE

Agent(s): PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; GOWLING WLG CANADA LLP; ESTUDIO CAREY LTDA; MAURICIO JARAMILLO CAMPUZANO; NOLL RONALD; KOENIG AND BAUER AG; GEORGE WIDJOJO; KITA AOYAMA INT PATENT BUREAU; NEVINPAT

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

Title: MARKING INSTRUMENTS AND METHODS OF MANUFACTURING MARKING INSTRUMENTS

Abstract: A handheld marking instrument includes a body having a substantially flat shape, a first chamber formed within the body and having an inner surface configured to receive and contain a marking substance within the body, and a first marking device configured to deliver the marking substance to a desired surface during marking. The first marking device is incorporated in the body and in communication with the first chamber to access the marking substance contained by the inner surface. At least a part of the first marking device is moveable between an exposed position for marking on the desired surface, and a retracted position. In one embodiment, the body has a form factor of a financial transaction card.

Classifications:

International (IPC 8-9): B42D15/02 B42D15/10 B43K23/08

B43K29/00 B43K29/093 B43K3/00 B43K5/00 B43K7/00 B43K7/02

B43K7/03 B43K7/12 G06K19/00 G06K19/06 (Advanced/Invention);

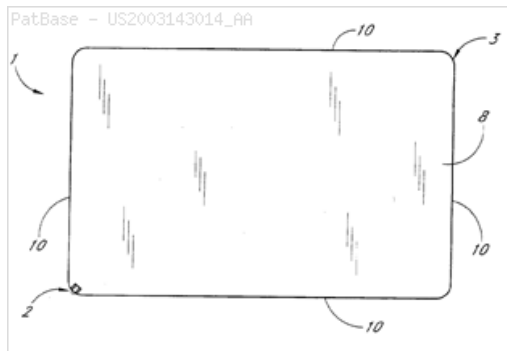
B43K29/00 (Core/Invention)

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D19/42



Family:

Publication number	Publication date	Application number	Application date
AT327906 E	20060615	AT20030704077T	20030129
AU2003205387 AA	20030902	AU20030205387	20030129
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DE60305647 T2	20070516	DE20036005647T	20030129
EP1474296 A2	20041110	EP20030704077	20030129
EP1474296 B1	20060531	EP20030704077	20030129
ES2266777 T3	20070301	ES20030704077T	20030129
JP2005515919 T2	20050602	JP20030563828T	20030129
PT1474296 T	20060929	PT20030704077T	20030129
US2003143014 AA	20030731	US20030354263	20030129
US2005111899 AA	20050526	US20040018544	20041221
US2008063462 AA	20080313	US20070942549	20071119
US6866439 BB	20050315	US20030354263	20030129
US7296944 BB	20071120	US20040018544	20041221
WO03064174 A2	20030807	WO2003US02805	20030129
WO03064174 A3	20031023	WO2003US02805	20030129

Priority:

US20020353001P 20020129 US20020384189P 20020529 WO2003US02805 20030129
US20030354263 20030129 US20040018544 20041221 US20070942549 20071119

Probable Assignee: STEINSCHADEN ANDRE R

Assignee(s): (std): STEINSCHADEN ANDRE R

Assignee(s): KNOBBE MARTENS OLSON AND BEAR LLP

Inventor(s): (std): STEINSCHADEN ANDRE R

Inventor(s): ANDRE R STEINSCHADEN ; STEINSCHADEN ANDRE

Agent(s): ROBIC; SUGIMURA KOSAKU; KNOBBE MARTENS OLSON AND BEAR LLP

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

8) Family number: 3093055 (EP0324596A2)

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Title: METHOD OF AND APPARATUS FOR APPLYING POLYMERIC MATERIALS TO PRINTED CIRCUITS.

Abstract: A method of and apparatus for applying a curable dry film of polymeric or heat sensitive material to a specific area of one or both surfaces of a printed circuit board (58) to provide protection from stripping and plating operations during the fabrication thereof involves the use of a hot elastomeric pad (50) backed by a rigid surface (52) for stamping or pressing the dry film of protective material to the surface of the printed circuit board. The configuration of the elastomeric pad, (50), the contacting surface (56) thereof, or the support means therefore allow increased conformity of the dry film of polymeric material with irregularities in the surface of a printed circuit board and precludes the formation of air pockets therebetween. The invention is also applicable to semiconductor wafer fabrication.

Classifications:

International (IPC 8-9): B29C65/78 B30B15/06 H01L21/683

H05K1/11 H05K3/00 H05K3/06 H05K3/24

H05K3/28 (Advanced/Invention);

B29C65/78 H05K1/11 H05K3/06 H05K3/24 (Advanced/Non-invention);

B29C65/78 B30B15/06 H01L21/67 H05K3/00 H05K3/06

H05K3/28 (Core/Invention);

H05K1/11 H05K3/24 (Core/Non-invention)

International (IPC 1-7): A01F12/44 B07B4/02 B29C65/78 B30B15/06

H01L21/68 H01L23/30 H05K3/00 H05K3/06 H05K3/10 H05K3/28

CPC: B30B15/061 B32B37/10 B32B37/26 B32B38/1866 H05K1/117

H05K3/0023 H05K3/0079 H05K3/243 H05K3/281 H05K2203/066

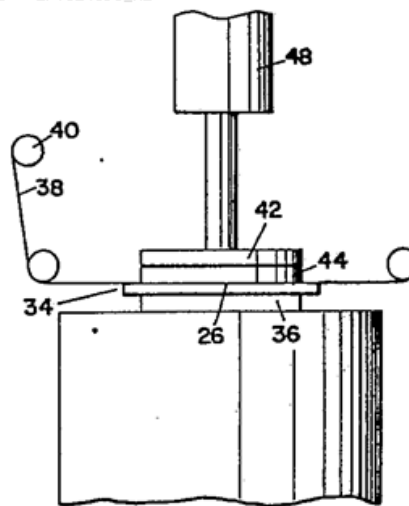
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European: B30B15/06 B30B15/06B B32B31/00A5 B32B31/00A5F

B32B31/00C6 B32B37/10 B32B37/26 B32B38/18D H05K3/00N3

H05K3/28B T05K1/11E T05K203/06D T05K203/06E T05K203/07A6

T05K3/00K3F T05K3/24D



CYCLE "DOWN" POSITION

Fig. 5

Family:

Publication number	Publication date	Application number	Application date
AU198928406 A1	19890713	AU19890028406	19890111
AU605011 B2	19910103	AU19890028406	19890111
DK8689 A	19890712	DK19890000086	19890110
DK8689 A0	19890110	DK19890000086	19890110
EP0324596 A2	19890719	EP19890300208	19890111
EP0324596 A3	19910410	EP19890300208	19890111
JP1289132 A2	19891121	JP19890002177	19890110
KR19890012520 A	19890826	KR19890000209	19890111
NO890091 A	19890712	NO19890000091	19890110
NO890091 A0	19890110	NO19890000091	19890110
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Priority:

US19880142575 19880111 US19880272974 19881118

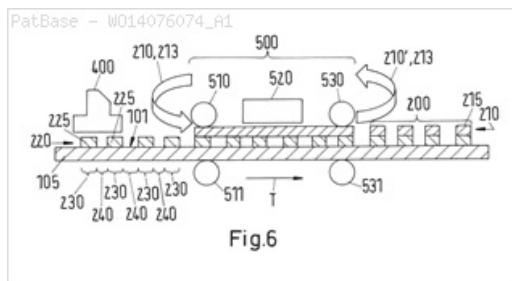
Probable Assignee: THIOKOL MORTON INC**Assignee(s):** (std): THIOKOL MORTON INC**Assignee(s):** MORTON THIOKOL INC**Inventor(s):** (std): MALIGIE WILLIAM A ; UIRIAMU EE MARIGII ; DERRICO GENE ; ROOS LEO**Inventor(s):** LEO ROOS ; GENE DERRICO ; WILLIAM A MALIGIE**Agent(s):** PHILLIPS ORMONDE FITZPATRICK**Designated states:** AT BE CH DE ES FR GB IT LI NL SE**9) Family number: 56488058 (WO14076074A1)**

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Title: METHOD FOR PRODUCING A SECURITY FEATURE FOR A VALUABLE AND/OR SECURITY PRODUCT, AND VALUABLE AND/OR SECURITY PRODUCT

Abstract: In order to produce a security feature 200 of, in particular, individualizing nature for a valuable and/or security product 100, the following method is proposed: (a) provision of a substrate 105 which has surfaces 101; (b) provision of at least one application element 210 which has a front side 211 and a rear side 212; (c) production of in each case one layer of an adhesion promoter 220 on at least one of the surfaces 101 of the substrate 105 or on the rear side of the application element 210, with the result that the adhesion promoter 220 is situated exclusively in at least one adhesion region 230 which is delimited by one or more free regions 240 on the at least one surface 101 of the substrate 105 or on the rear side 212 of the application element 210, but not in the at least one free region 240; (c) application of the respective application element 210 with the rear side 212 thereof to the at least one surface 101 of the substrate 105, which at least one surface 101 is provided with the respective layer of the adhesion promoter 220, or application of the application element 210 with the rear side 212 thereof which has the adhesion promoter 220 to one of the surfaces 101 of the substrate 105; (d) connection of the respective application element 210 in the adhesion regions 230 to the at least one surface 101 of the substrate 105, wherein the respective application element 210 does not remain connected to the at least one surface 101 of the substrate 105 in the free regions 240; and (e) mechanical removal of parts of the application element 210 which are not connected to the at least one surface 101 of the substrate 105. The at least one layer of the adhesion promoter 220 is produced in method step (b) by means of a digital printing method.

Classifications:**International (IPC 8-9):** B41M3/00 B41M3/14 B42D25/30 B44C1/17 (Advanced/Invention)**CPC:** B41M3/006 B41M3/14 B41M5/0256



Family:

Publication number	Publication date	Application number	Application date
DE102012220903 A1	20140528	DE201210220903	20121115
EP2919997 A1	20150923	EP20130789332	20131112
EP2919997 B1	20190529	EP20130789332	20131112
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WO14076074 A1	20140522	WO2013EP73610	20131112

Priority:

DE201210220903 20121115 WO2013EP73610 20131112

Probable Assignee: BUNDESDRUCKEREI GMBH

Assignee(s): (std): BUNDESDRUCKEREI GMBH

Inventor(s): (std): MATHEA ARTHUR ; GATTNER MARIO ; KULIKOVSKA OLGA ; PEINZE FRANZISKA ; TROELENBERG STEFAN

Inventor(s): MARIO GATTNER ; FRANZISKA PEINZE ; ARTHUR MATHEA ; STEFAN TROELENBERG ; OLGA KULIKOVSKA

Agent(s): BRESSEL BURKHARD; PATENTANWALTE BRESSEL U PARTNER MBB; ABU GAZALEH INTELLECTUAL PROPERTY LLC; PATENTANWALTE BRESSEL U PARTNER

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

10) Family number: 60353062 (US2018178577A)

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Title: METHODS OF MANUFACTURING SECURITY DOCUMENTS AND SECURITY DEVICES

Abstract: A method of making a security device, comprising: forming an array of primary focusing elements on a first region of a focusing element support layer, by applying at least one transparent curable material either to the focusing element support layer or to a casting tool carrying a surface relief over an area which includes at least the first region, the surface relief comprising portions corresponding to the primary focusing elements; forming the transparent curable material(s) with the casting tool; and curing the transparent curable material(s) so as to retain the surface relief in the first region; wherein the surface relief further includes a plurality of structures of greater depth than the height of the primary focusing elements such that the cured transparent material(s) include a plurality of features protruding above the height of the primary focusing elements between primary focusing elements of the array.

Classifications:

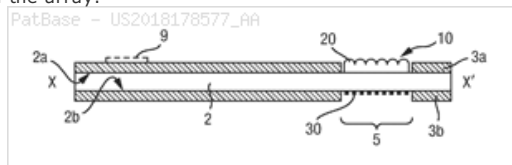
International (IPC 8-9): B29D11/00 B41M B41M3/14 B42D B42D25/00 B42D25/23 B42D25/24 B42D25/29 B42D25/324 B42D25/328 B42D25/342 B42D25/351 B42D25/355 B42D25/378 B42D25/40 B42D25/425 B42D25/45 B42D25/455 B42D25/46 B42D25/47 B42D25/48 G02B1/04 G02B3/00 G06K9/32 G06T1/00 G06T7/80 H04N1/00 H04N5/232 H04N5/247 (Advanced/Invention); B42D25/23 B42D25/24 B42D25/29 B42D25/47 (Advanced/Non-invention)

CPC: B42D25/328 B42D25/40 B29D11/00298 B29D11/00365 B42D25/324 B42D25/342 B42D25/351 B42D25/355 B42D25/378 B42D25/425 B42D25/45 B42D25/455 B42D25/46 B42D25/48 G02B3/0006 G02B3/0012 G02B3/0031 H04N1/00267 B41M3/14 B42D25/29 B29D11/00442 B42D25/23 B42D25/24 B42D25/47 G02B1/041 G02B3/005 G06K9/3216 G06K9/3275 G06K2009/3225 G06T1/0014 G06T7/80 G06T2207/30144 H04N5/23212 H04N5/247

US: 1/1 283/72 283/91 348/95 359/619

Family:

Publication number	Publication date	Application number	Application date
AU2016293291 AA	20180201	AU20160293291	20160711
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AU2016293292 AA	20180125	AU20160293292	20160711
AU2016293293 AA	20180125	AU20160293293	20160711
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AU2016293295 AA	20180125	AU20160293295	20160711
AU2016294553 AA	20180125	AU20160294553	20160711
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CA2991957 AA	20180110	CA20162991957	20160711
CA2991958 AA	20180110	CA20162991958	20160711
CA2991962 AA	20180110	CA20162991962	20160711
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DE602016019451 D1	20190912	DE201660019451T	20160711
EP3319806 A1	20180516	EP20160738531	20160711
EP3319807 A1	20180516	EP20160738532	20160711
EP3319808 A1	20180516	EP20160741112	20160711



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EP3319813 A1	20180516	EP20160741114	20160711
EP3319813 B1	20190828	EP20160741114	20160711
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GB2542241 B2	20190410	GB20160012016	20160711
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GB2542461 B2	20180207	GB20160012020	20160711
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GB2551092 B2	20190327	GB20170014332	20160711
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GB2557415 B2	20190410	GB20170016266	20160711
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US2018194157 AA	20180712	US20160740620	20160711
US2018315151 AA	20181101	US20160740596	20160711
US10438309 BB	20191008	US20160740620	20160711
US10467721 BB	20191105	US20160740596	20160711
WO17009616 A1	20170119	WO2016GB52081	20160711
WO17009617 A1	20170119	WO2016GB52082	20160711
WO17009618 A1	20170119	WO2016GB52083	20160711
WO17009619 A1	20170119	WO2016GB52084	20160711
WO17009620 A1	20170119	WO2016GB52085	20160711
WO17009621 A1	20170119	WO2016GB52086	20160711
ZA201800190 A	20190731	ZA20180000190	20160711

Priority:

GB20150012118	20150710	EP20160741114	20160711	GB20160012015	20160711
WO2016GB52082	20160711	WO2016GB52081	20160711	GB20160012022	20160711
WO2016GB52084	20160711	WO2016GB52083	20160711	WO2016GB52085	20160711
WO2016GB52086	20160711				

Probable Assignee: DE LA RUE INT LTD

Assignee(s): (std): DE LA RUE INT LTD ; RUE DE INT LTD ; LA RUE INT DE LTD ; LA RUE INT LTD

Assignee(s): O MALLEY JOHN ; HOLMES BRIAN WILLIAM ; GODFREY JOHN ; LISTER ADAM ; WHITEMAN ROBERT ; COMMANDER LAWRENCE GEORGE ; CORNES IAN ; DE LA RUE INT BASINGSTOKE LTD

Inventor(s): (std): HOLMES BRIAN WILLIAM ; GODFREY JOHN ; O MALLEY JOHN ; LISTER ADAM ; COMMANDER LAWRENCE GEORGE ; CORNES IAN ; WHITEMAN ROBERT ; ROBERT WHITEMAN ; BRIAN HOLMES ; LAWRENCE GEORGE MANDER ; O'MALLEY JOHN ; ADAM LISTER ; BRIAN WILLIAM HOLMES ; LAWRENCE GEORGE COMMANDER ; JOHN O MALLEY ; IAN CORNES ; JOHN GODFREY

Agent(s): DAVIES COLLISON CAVE PTY LTD; BERESKIN AND PARR LLP SENCRL SRL; GILL JENNINGS AND EVERY LLP; HALDANES; OLIFF PLC

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

11) Family number: 32879068 (US2008254281A)

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Title: MICROLAYER STRUCTURES AND METHODS

Abstract: Improved microlayer structures and methods typically employing at least 4 stacked layers of polymers (e.g., including alternating layers of components A and B), such as that obtained by coextrusion. The layers each have a thickness of less than about 50 microns. One optional approach involves forming an intermediate form that includes at least one elongated member made from the plurality of layers, from which a shaped composite article may be made.

Classifications:

International (IPC 8-9): B29B11/16 B29C43/36 B29C45/14

B29C47/06 B29C51/00 B29C51/08 B29C51/26 B29C51/32
 B29C53/58 B29C53/60 B29C53/80 B29C55/02 B29C63/10
 B29C65/00 B29C69/00 B29C70/04 B29C70/16 B29C70/46
 B29D22/00 B29D23/00 B29K101/12 B29K301/12 B31B1/60
 B31C1/00 B32B1/00 B32B1/08 B32B27/32 B32B37/00 B32B7/00
 B32B7/02 B65H81/00 D01F8/06 D03D15/00 D06M23/14 F16L11/08
 F16L9/12 F16L9/14 (Advanced/Invention);
 B29K101/12 B29K23/00 B29K301/12 B29L23/00 B29L9/00
 B32B23/00 (Advanced/Non-invention);
 B29B11/16 B29C45/14 B29C51/00 B29C51/08 B29C51/26
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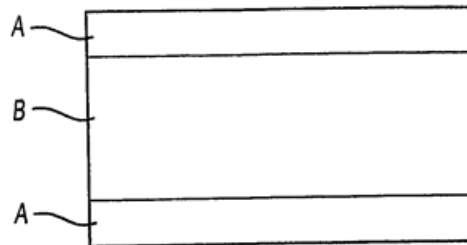
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 D03D15/00

CPC: B29C43/36 B29C51/004 B29C70/04 B29C2043/3602 B29C2043/3631 B29K2023/0641 B29K2023/12 B32B1/00
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 Y10T428/1303 Y10T428/1352 Y10T428/1359 Y10T428/139 Y10T428/1393 Y10T428/24942 Y10T428/2495 Y10T428/24975
 Y10T428/264 Y10T428/31504 Y10T428/31909 Y10T428/31913 Y10T442/2008

European: B29B11/16 B29C43/36 B29C51/00B2 B29C70/04 B32B1/00 B32B27/32 D03D15/00 D03D15/0002 L29C43/36A
 L29C43/36C2E L29K23/06B7 L29K23/12 N10B321/021 N10B321/022 N10B401/041 N10B505/02

US: 1/1 138/137 138/150 156/162 156/171 156/184 156/186 156/187 156/188 156/443 156/60 264/165 264/165S
 264/177.17 264/177.170S 264/255 264/255P 264/322 264/322P 428/212 428/212S 428/213 428/213S 428/216 428/216P
 428/335 428/335P 428/34.1 428/34.2 428/35.7 428/35.9 428/36.9 428/36.91 428/36.910S 428/411.1 428/515 428/516
 442/60 442/60P

PatBase - US2008254281_AA



Family:

Publication number	Publication date	Application number	Application date
AT435730 E	20090715	AT20050857577T	20051020
AT497437 E	20110215	AT20050817141T	20051020
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BRPI0516389 A	20080902	BR2005PI16389	20051020
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US2008254281 AA	20081016	US20050577385	20051020
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WO06047366 A1	20060504	WO2005US38091	20051020
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WO06091245 A2	20060831	WO2005US37729	20051020
WO06091245 A3	20070104	WO2005US37729	20051020

Priority:
US20040621463 20041022 US20040621463P 20041022 US20050717965P 20050916
US20050718025P 20050916 US20050725399P 20051011 EP20050817141 20051020
EP20050823133 20051020 EP20050857577 20051020 US20050577385 20051020
US20050577393 20051020 US20050577392 20051020 US20050577384 20051020
US20050577394 20051020 WO2005US38091 20051020 WO2005US37729 20051020
WO2005US38103 20051020 WO2005US38104 20051020 WO2005US38105 20051020
US20080577393 20080118 US20080577385 20080221 US20100942624 20101109
US20110223518 20110901

Probable Assignee: DOW GLOBAL TECHNOLOGIES LLC

Assignee(s): (std): AARTS MARTINUS A ; CHEN HONGYU ; CHUM STEPHEN ; D HOOGHE EDWARD L ; DOW GLOBAL TECHNOLOGIES INC ; FEHR BERNARD A ; WALKER RICHARD A ; MCLEOD DAVID G ; WEVERS RONALD ; TELI SAMAR R ; JERUZAL MARK B ; DOW GLOBAL TECHNOLOGIES LLC

Assignee(s): DOW GLOBAL TECHNOLOGIES LLC MIDLAND ; DOW GLOBAL THECHNOLOGIES INC ; DOW BENELUX BV ; DOW CHEMICAL CO ; DOW EUROPE GMBH

Inventor(s): (std): D HOOGHE EDWARD L ; WALKER RICHARD A ; MCLEOD DAVID G ; CHEN HONGYU ; WEVERS RONALD ; CHUM STEPHEN ; TELI SAMAR R ; MCLEOD DAVID G D HOOGHE EDWARD ; JERUZAL MARK B AARTS MARTINUS ; CHEN HONGYU WEVERS RONALD CHUM ; MACLEOD DAVID G ; CHUM WING S ; FEHR BERNARD ; AARTS MARTINUS ; JERUZAL MARK ; AARTS MARTINUS W ; TELI SAMAR ; D HOOGHE EDWARD ; MCLEOD DAVID ; HOOGHE EDWARD L D ; HONGYU CHEN ; STEPHEN CHUM ; RONALD WEVERS ; CHEN HONGYU WEVERS RONALD MCLE ; FEHR BERNARD A ; AARTS MARTINUS A ; JERUZAL MARK B

Inventor(s): CHEN HONGYU WEVERS RONALD CHUM STEPHEN MCLEOD ; CHEN HONGYU LAKE JACKSON ; MCLEOD DAVID G ROCHESTER ; CHUM STEPHEN LAKE JACKSON ; SAMAR R TELI ; DAVID G MCLEOD ; RICHARD A WALKER ; EDWARD L D HOOGHE ; MCLEOD DAVID GRAY ; CHEN HONGYU ; BERNARD A FEHR ; DAVID G MCLEOD ; MARTINUS A AARTS ; MARK B JERUZAL ; CHEN HONGYU WEVERS RONALD MCLEOD DAVID G

Agent(s): CASALONGA AND PARTNERS; RAYNOR JOHN; THE DOW CHEMICAL COMPANY / DOBRUSIN AND THENNISCH PC; DOW CHEMICAL CO DOBRUSIN AND THENNISCH PC; DOBRUSIN AND THENNISCH PC; DOBRUSIN LAW FIRM PC

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

12) Family number: 3502078 (US4938830A)

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Title: PLASTIC CARD AND METHOD OF FABRICATION THEREOF

Abstract: A method of fabricating a plastic card including the steps of printing on the rear surface thereof, laminating a sheet of clear plastic to the rear surface while simultaneously polishing the front surface, laminating a metal layer to the front surface of the sheet of plastic, and applying a protective coating of a mixture of aminocoumarin dye and clear liquid polyvinyl chloride to the surface by a silk screen process to thereby protect the metal layer against wear and abrasion. A plastic card including a central layer having a front surface and a rear surface, a layer of clear plastic sheeting on the rear surface, a metalized layer on the front surface, and a coating of cured silk-screen-applied clear liquid resin consisting of a mixture of aminocoumarin dye and clear liquid polyvinyl chloride on the metal layer for protecting it against wear and abrasion.

Classifications:

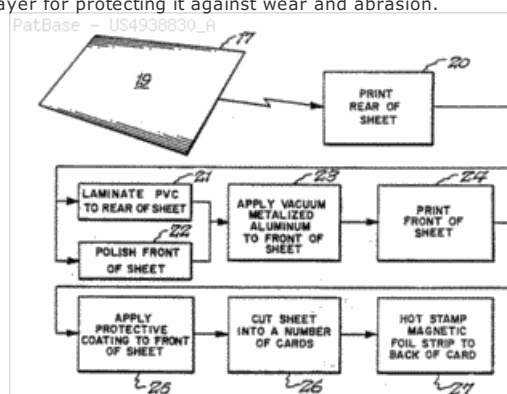
International (IPC 8-9): B32B27/06 B32B38/14 B42D15/10 B44F1/12 (Advanced/Invention);

B32B27/06 B32B38/14 B42D15/10 B44F1/00 (Core/Invention)
International (IPC 1-7): B32B31/00

CPC: B32B2429/00 B42D25/00 B42D25/455 B42D25/46 Y10T156/1085 B32B27/06 B32B38/14 B42D25/23 B42D25/369 B42D25/373 B42D25/425 B42D2033/10 B42D2033/16 B32B15/082 B32B27/304 B32B38/145 B32B2038/0064 B32B2255/06 B32B2255/26 B32B2307/554 B32B2311/24 B32B2327/06 B32B2425/00 B42D25/45

European: B32B27/06 B32B31/00D11 B32B38/14 B42D15/10 L32B425/00 L32B429/00 L42D31/04 L42D31/22 L42D31/24 L42D33/10 L42D33/16

US: 156/270 156/277 156/280 156/323 283/109 283/75 40/626 524/110



Family:

Publication number	Publication date	Application number	Application date
US4938830 A	19900703	US19880164919	19880307

Priority:

US19880164919 19880307

Probable Assignee: PERFECT PLASTIC PRINTING CORP A CORP OF DE

Assignee(s): (std): PERFECT PLASTIC PRINTING CORP

Assignee(s): PERFECT PLASTIC PRINTING CORP A CORP OF DE

Inventor(s): (std): CANNISTRA NICK E

13) Family number: 43148083 (WO09048139A1)

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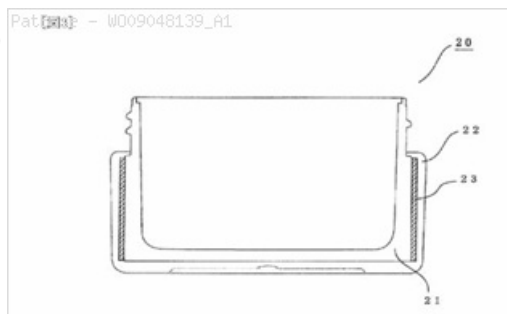
Title: INJECTION MOLDING COMPOSITE VESSEL AND ITS MANUFACTURING METHOD

Abstract: A label is arranged on an inner wall of a female metal mold and a first resin material is injection-molded. A second resin material is injection-molded by performing mold closing with a first resin material portion and a metal mold so as to completely contain the label on the obtained first resin material portion. Thus, it is possible to provide such a composite

vessel that the label is contained inside the resin material and the both sides of the label are fused/attached to the resin material to constitute an integral composite vessel.

Classifications:

International (IPC 8-9): B29C45/14 B29C45/16 B29L22/00 B29L9/00 B65D1/00 B65D1/22 B65D1/40 B65D25/00 B65D25/20 B65D25/34 (Advanced/Invention); B29C45/14 B29L22/00 B29L31/00 B29L9/00 B65D1/40 B65D25/20 B65D25/34 (Advanced/Non-invention); B29C45/14 B29C45/16 B65D1/00 B65D1/40 B65D25/00 B65D25/20 (Core/Invention)
CPC: B29C2045/14918 B29C45/1671 B29L2031/712 B29L2031/744 B65D2203/02 B29C45/14819 B65D1/22 B65D25/00 B65D1/40
European: B29C45/16J B65D1/40 L29L31/712 L29L31/744 L65D203/02



Family:

Publication number	Publication date	Application number	Application date
CN101821167 A	20100901	CN200880110948	20081010
CN101821167 B	20150805	CN200880110948	20081010
EP2213580 A1	20100804	EP20080838289	20081010
EP2213580 A4	20130313	EP20080838289	20081010
EP2213580 B1	20160928	EP20080838289	20081010
ES2608819 T3	20170417	ES20080838289T	20081010
JP2009263006 A2	20091112	JP20080263506	20081010
JP5641685 B2	20141217	JP20080263506	20081010
KR101703487 B1	20170206	KR20167034452	20081010
KR20100086999 A	20100802	KR20107010228	20081010
KR20150063166 A	20150608	KR20157013120	20081010
KR20160144517 A	20161216	KR20167034452	20081010
WO09048139 A1	20090416	WO2008JP68470	20081010

Priority:

JP20070267239 20071012 JP20080098649 20080404 EP20080838289 20081010
 JP20080263506 20081010 WO2008JP68470 20081010

Probable Assignee: SANYO CHEMICAL INDUSTRIAL CO

Assignee(s): (std): FUNATO TAKASHI ; KOBAYASHI MASAYUKI ; SANYO CHEMICAL IND LTD ; SANYO KAGAKU KOGYO KK ; YUPO CORP ; YASUDA HIROMICHI ; YAMADA YOSHIHIRO

Assignee(s): SANYO CHEMICAL INDUSTRIAL CO ; SANYO CHEMICAL INDUSTRIAL CO LTD

Inventor(s): (std): YASUDA HIROMICHI ; FUNATO TAKASHI ; KOBAYASHI MASAYUKI ; YAMADA YOSHIHIRO ; TAKASHI FUNATO ; MASAYUKI KOBAYASHI ; YOSHIHIRO YAMADA ; HIROMICHI YASUDA

Agent(s): ZIMMERMANN AND PARTNER; ZIMMERMANN AND PARTNER PATENTANWALTE MBB; GARCIA CABRERIZO GARCIA CABRERIZO PEDRO; SIKS AND CO

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

14) Family number: 47632092 (WO10130041A1)

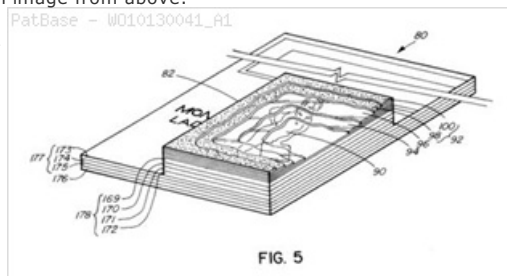
© PatBase

Title: A FULL COLOUR VARIABLE INSTANT WIN LOTTERY TICKET MADE OF A LIGHT CORE SUBSTRATE

Abstract: A scratch-off instant game card and method of manufacture provides full colour variable image printed in the security area on an opaque ink structure on a light core substrate such that the image remains securely hidden until the scratch-off layer is removed. The image is printed using a digital printing method capable of printing variable images including the liquid electrophotographic printing method, the toner electrophotographic printing method and the continuous or drop on demand ink jet printing that is cured/dried. The opaque ink structure for the security area comprises sufficient absorptive qualities to enable a rapid and high level of adhesion of the image to the security area and is sufficiently impenetrable to prevent determination of the contents of the image through the ink structure from below. One or more varnish layers and one or more scratch-off layers cover the graphical image from above.

Classifications:

International (IPC 8-9): A63F3/06 B32B29/06 B32B33/00 B32B37/02 B32B38/14 B32B38/16 B42D15/00 (Advanced/Invention)
CPC: B32B37/02 A63F3/0665 A63F2003/066 B41M3/005 B41M7/0081 B41M7/009 B41M7/02 B42D25/378 B42D2035/14 B42D2035/34
European: A63F3/06F2 B41M3/00H K63F3/06F1J L41M7/00C L41M7/00S L41M7/00T L41M7/02 L42D35/14 L42D35/34



Family:

Publication number	Publication date	Application number	Application date
WO10130041 A1	20101118	WO2010CA00722	20100510

Priority:

US20090213135P 20090511

Probable Assignee: BLACK AND WHITE PAPER MFG AB

Assignee(s): (std): BLACK AND WHITE PAPER MFG AB ; SKOGSTER AAPO MAURI KUSTAA ; VERSLUIJS PIETER

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

15) Family number: 49612100 (US2011229695A)

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Title: ARTICLES HAVING METALIZING AND HOLOGRAPHIC EFFECTS

Abstract: An article having a substrate with at least one ink layer in direct contact with at least a portion of the substrate. An acrylic polymer matrix layer is in direct contact with at least a portion of the ink layer. The acrylic polymer matrix layer has suspended aluminum platelets and at least one photoinitiator. At least a portion of the acrylic polymer matrix layer has a selectively embossed top surface with a pattern of fine grooves to create an optical effect.

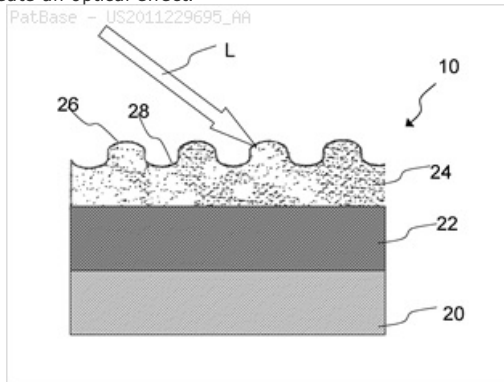
Classifications:

International (IPC 8-9): B05D3/12 B32B3/30 B44B5/02 B44F1/02 B44F1/14 C08J7/04 D21H19/66 G03H1/18 (Advanced/Invention)

CPC: D21H21/16 B05D1/40 B05D3/067 B05D5/067 B44F1/10 C08J7/047 C08J2433/00 C08J7/045 Y10T428/24612 Y02P20/582

European: B44F1/10 C08J7/04 D21H21/16 L05D1/40 L05D3/06C5E L05D5/06T

US: 427/355 427/355S 428/172 428/172P



Family:

Publication number	Publication date	Application number	Application date
CA2793152 AA	20110922	CA20112793152	20110316
CN102803359 A	20121128	CN201180014438	20110316
EP2547721 A2	20130123	EP20110714450	20110316
JP2013527487 T2	20130627	JP20130500166T	20110316
MX2012010700 A1	20121009	MX20120010700	20110316
US2011229695 AA	20110922	US20100726577	20100318
WO11116036 A2	20110922	WO2011US28578	20110316
WO11116036 A3	20120322	WO2011US28578	20110316

Priority:

US20100726577 20100318 WO2011US28578 20110316

Probable Assignee: GILLETTE CO

Assignee(s): (std): FRANCE PAUL AMAAT ; GILLETTE CO ; GUILLETE CO ; GUILLETE COMPANY ; MARCINKOWSKI STANLEY MICHAEL

Assignee(s): THE GUILLETE COMPANY ; THE GILLETTE COMPANY

Inventor(s): (std): MARCINKOWSKI STANLEY MICHAEL ; FRANCE PAUL AMAAT ; MICHAEL MARCINKOWSKI STANLEY ; AMAAT FRANCE PAUL

Inventor(s): STANLEY MICHAEL MARCINKOWSKI ; PAUL AMAAT FRANCE

Agent(s): TORYS LLP; Chandrani Vandita; THE GILLETTE COMPANY

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

16) Family number: 42385126 (US2008251581A)

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Title: TRANSACTION CARD

Abstract: The present invention relates to a process for producing a transparent or translucent transaction card having multiple features. An optically recognizable compound may be associated with a portion of the card for blocking infrared radiation and may comprise an infrared ink having nanocrystalline indium tin oxide particles. Moreover, a portion of the transaction card may include a second optically recognizable compound disposed thereon. The second optically recognizable compound may comprise an infrared phthalocyanine dye, an infrared phosphor, and a quantum dot energy transfer compound. The infrared ink may be detected by a sensor found in an ATM or card assembly line.

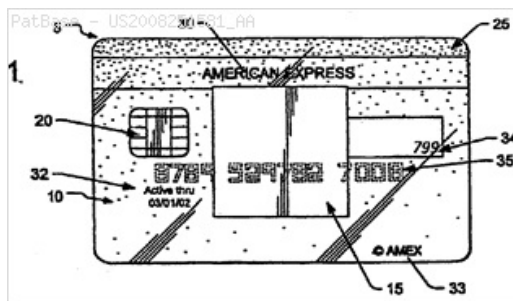
Classifications:

International (IPC 8-9): G06K19/00 G06K7/00 (Advanced/Invention); G06K19/00 G06K7/00 (Core/Invention)

CPC: B42D25/00 B42D25/351 B42D25/382 B41M3/14 B42D2033/04 B42D2033/20 B42D2033/30

European: B41M3/14 B42D15/10 L42D31/04 L42D33/20 L42D35/38

US: 235/435 235/435P 235/487 235/487S 235/488 235/491



Family:

Publication number	Publication date	Application number	Application date
US2008251581 AA	20081016	US20080124937	20080521
US8066190 BB	20111129	US20080124937	20080521

Priority:

US19990153112P 19990907	US19990160519P 19991020	US19990167405P 19991124
US19990171689P 19991221	US20000652899 20000831	US20000653837 20000901
US20020062106 20020131	US20020092681 20020307	US20030394914 20030321
US20070879468 20070717	US20080124937 20080521	

Probable Assignee: LIBERTY PEAK VENTURES LLC

Assignee(s): (std): AMERICAN EXPRESS TRAVEL RELATE ; FAENZA JR WILLIAM J

Assignee(s): III HOLDINGS 1 LLC ; LIBERTY PEAK VENTURES LLC ; AMERICAN EXPRESS TRAVEL RELATED SERVICES CO INC ; AMERICAN EXPRESS TRAVEL RELATED SERVICES CO INC A ; AMERICAN EXPRESS TRAVEL RELATED SERVICES CO INC A SUBSIDIARY OF AMERICAN EXPRESS CO ; AMERICAN EXPRESS TRAVEL RELATED SERVICES COMPANY INC

Inventor(s): (std): FAENZA WILLIAM J ; FAENZA JR WILLIAM J

Agent(s): SNELL AND WILMER LLP AMEX; SNELL AND WILMER LLP

17) Family number: 31970128 (US2005180020A)

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Title: MICRO-OPTIC SECURITY AND IMAGE PRESENTATION SYSTEM

Abstract: A film material utilizing a regular two-dimensional array of non-cylindrical lenses to enlarge micro-images, called icons, to form a synthetically magnified image through the united performance of a multiplicity of individual lens/icon image systems. The synthetic magnification micro-optic system includes one or more optical spacers (5), a micro-image formed of a periodic planar array of a plurality of image icons (4) having an axis of symmetry about at least one of its planar axes and positioned on or next to the optical spacer (5), and a periodic planar array of image icon focusing elements (1) having an axis of symmetry about at least one of its planar axes, the axis of symmetry being the same planar axis as that of the micro-image planar array (4). A number of distinctive visual effects, such as three-dimensional and motion effects, can be provided by the present system.

Classifications:

International (ipc 8-9): A61B1/00 B23P11/00 B32B3/30 B32B7/06 B41M3/14 B42D B42D15/00 B42D15/10 B42D25/00 B42D25/20 B42D25/29 B42D25/30 B42D25/324 B42D25/328 B42D25/342 B42D25/355 B42D25/36 B42D25/40 B42D25/41 B42D25/425 B42D25/43 B42D25/44 B42D25/45 B44F1/04 B44F1/06 B44F1/10 B44F1/12 B44F7/00 D21C9/10 D21H21/40 D21H21/42 D21H21/44 G01B G01B15/02 G01N G01N23/02 G01N23/06 G02B G02B13/18 G02B27/00 G02B27/02 G02B27/06 G02B27/08 G02B27/10 G02B27/12 G02B27/14 G02B27/22 G02B3/00 G02B3/02 G02B3/04 G02B3/10 G02B5/08 G02B5/12 G02B5/18 G03H G03H1/00 G03H1/02 G06K9/18 G07D7/12 G09F3/03 G42D15/10 (Advanced/Invention); D21H21/44 G03H1/00 (Advanced/Non-invention); A61B1/00 B41M3/14 B42D15/00 B42D15/10 D21C9/10 G01B15/00 G02B1/00 G02B13/00 G02B27/00 G02B27/02 G02B27/10 G02B27/22 G02B3/00 G02B5/00 G02B5/18 G03H1/00 G06K9/18 G07D7/12 (Core/Invention); A61B B42D G01B G01N G02B G03H G06K (Subclass/Invention)

International (ipc 1-7): A61B1/00 G01B15/02 G02B0/00 G02B1/00 G02B13/18 G02B27/10

CPC: B42D15/0013 B42D2035/28 B42D15/0026 B42D15/0073 G02B5/1842 G02B27/1006 B41M3/148 B44F7/00 G02B3/0068 G02B27/123 B42D25/23 B41M3/14 G02B27/10 D21H21/40 G02B3/0075 G03H1/0256 G03H2223/19 G09F3/0376 Y10T156/1153 Y10T156/1158 B42D25/21 B42D25/351 B42D25/373 B42D25/47 B42D25/324 B42D25/328 B42D25/355 B42D25/382 B42D25/387 B42D25/391 B42D25/425 B42D25/43 B42D2033/10 B42D2033/16 B42D2033/18 B42D2033/20 B42D2035/26 B42D2035/36 G03H1/0244 B42D25/00 B42D25/342 B42D2033/24 B42D2035/08 B42D2035/20 B42D2035/44 B44F1/06 B44F1/10 D21H21/44 G02B3/0031 G02B3/0043 G02B3/0056 G02B27/06 G02B27/2214 Y10T29/49826 B42D25/29 B42D25/41

European: B42D15/00C B42D15/00C2 B42D15/00C4 B42D15/10 B44F1/06 B44F1/10 B44F7/00 D21H21/40 G02B27/06 G02B27/12L G02B27/22L G02B3/00A1R G02B3/00A3I G02B3/00A3S G02B3/00A3Z1 G02B3/00A5 G09F3/03B L42D33/24 L42D35/08 L42D35/20 L42D35/28 L42D35/44 N21H21/44 S02B27/22L S02B3/00A3S S03H1/02L5 S03H223/19

US: 156/344 156/711 156/711S 156/712 156/712S 283/109 283/109P 283/72 283/72P 283/72S 29/428 29/428P 359/618 359/619 359/619P 359/619S 359/622 359/622P 359/622S 359/626 359/626P 359/626S 359/627 359/627S

Family:

Publication number	Publication date	Application number	Application date
AU2004294182 AA	20050609	AU20040294182	20041122
AU2004294182 BB	20100701	AU20040294182	20041122
AU2004294182 CA	20140116	AU20040294182	20041122
AU2006246716 AA	20061123	AU20060246716	20060518
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AU2007272705 AA	20080117	AU20070272705	20070628
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AU2011271030 BB	20150115	AU20110271030	20110622
AU2011271030 CA	20160929	AU20110271030	20110622
AU2013204845 AA	20130516	AU20130204845	20130412
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BRPI0610706 A2	20100720	BR2006PI10706	20060518
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BRPI0713906 B1	20180605	BR2007PI13906	20070628
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CA2608754 AA	20071116	CA20062608754	20060518
CA2608754 C	20171121	CA20062608754	20060518
CA2656528 AA	20081224	CA20072656528	20070628
CA2656528 C	20150414	CA20072656528	20070628
CA2769301 AA	20120125	CA20102769301	20100812
CA2769301 C	20180918	CA20102769301	20100812
CA2803857 AA	20121221	CA20112803857	20110622
CA2803857 C	20181030	CA20112803857	20110622
CA2812971 AA	20050609	CA20042812971	20041122
CA2812971 C	20180206	CA20042812971	20041122
CA2938784 AA	20050609	CA20042938784	20041122
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Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU

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IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT
MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST
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18) Family number: 15161135 (US6352784B)

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Title: WOOD DECORATIVE MATERIAL COATED WITH RESIN COMPOSITE FILM AND PROCESS FOR PRODUCING THE SAME

Abstract: A wood decorative material coated with resin composite film, comprising a laminate of, arranged in the following order, a wood substrate; a heat bonding layer (A) formed from a heat bonding resin composition comprising 100 parts by weight of a thermoplastic resin (a-1) and 0.001 to 80 parts by weight of a tackifier resin (a-2), the above heat bonding resin composition having a melting point or softening temperature of 170 degrees centigrade or below and exhibiting a melt flow rate (MFR) at 190 degrees centigrade of 1 to 500 g/10 min; and a mar-proof surface layer (B). Not only can beautiful appearance be obtained while retaining natural texture without the application of lacquer but also surface protection and bending working properties are improved.

Classifications:

International (IPC 8-9): B27D1/00 B27D5/00 B27M3/00 B29C63/02 B32B21/08 B44C5/04 (Advanced/Invention);

B27D1/00 B27D5/00 B27M3/00 B29C63/02 B32B21/00 B44C5/00 (Core/Invention)

International (IPC 1-7): B27D1/00 B27D5/00 B27M3/00 B29C63/02 B32B21/08 B32B31/00 B44C5/04

CPC: Y10S428/91 B44C5/043 B27D1/00 Y10T428/24983 Y10T428/2826 Y10T428/31783 Y10T428/3179 Y10T428/31797 Y10T428/31895 Y10T428/31909 Y10T428/31913

European: B27D1/00 B44C5/04H

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US6352784 BA	20020305	US19980106138	19980629

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19) Family number: 65969136 (US2018348900A)

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Title: FILM AND METHOD FOR PRODUCING A FILM

Abstract: A film, a method for producing a film, the use of a film for application to a target substrate as well as a method for producing an electrical functional element. The film here includes a carrier substrate, an adhesion-promoting layer for applying the film to a target substrate, and at least one electrically conductive layer, wherein the at least one electrically conductive layer forms an electrical functional structure in a functional region, wherein the at least one electrically conductive layer forms at least one contacting structure for contacting the electrical functional structure in at least one contacting region, and wherein the adhesion-promoting layer does not cover the at least one contacting region at least in areas when viewed perpendicularly to a plane spanned by the carrier substrate or wherein the adhesion-promoting layer is applied over the whole surface when viewed perpendicularly to a plane spanned by the carrier substrate.

Classifications:

International (IPC 8-9): B29C45/14 B29C65/48 B32B37/06

B32B37/12 B32B7/025 B32B7/14 C09D127/06 C09D133/12

C09D175/04 C09J127/06 C09J133/12 C09J175/04 C09J7/00

G06F3/041 G06F3/044 H01B13/00 H05K1/11

H05K3/40 (Advanced/Invention)

CPC: H05K3/4007 H05K1/0289 H05K1/117 G06F3/0416 C09D127/06

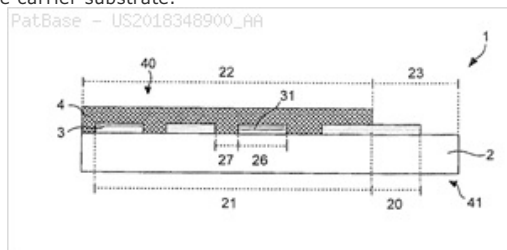
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C09J175/04 G06F3/044 G06F3/041 G06F2203/04103 B32B7/14

B32B37/06 B32B37/1292 B32B2255/205 B32B2307/202

B32B2309/02 B32B2457/208 G06F2203/04104

US: 1/1 345/174



Family:

Publication number	Publication date	Application number	Application date
BR112018010834 A2	20181121	BR20181110834	20161121
CA3006673 AA	20180529	CA20163006673	20161121
CN108604139 A	20180928	CN201680081103	20161121
DE102015121195 A1	20170608	DE201510121195	20151204
EP3384368 A1	20181010	EP20160798736	20161121
ES2693318 T1	20181211	ES20160798736T	20161121
IN201817024404 A	20181130	IN201817024404	20180629
JP2019505882 T2	20190228	JP20180528990T	20161121
KR20180090354 A	20180810	KR20187019160	20161121
MX2018006611 A1	20190613	MX20180006611	20161121
TW201740256 A	20171116	TW20160139552	20161130

US2018348900 AA	20181206	US20160778071	20161121
WO17093066 A1	20170608	WO2016EP78349	20161121

Priority:

DE201510121195 20151204 DE201610101736 20160201 DE201610114638 20160808
WO2016EP78349 20161121 EP20160798736 20161121

Probable Assignee: LEONHARD KURZ STIFTUNG AND CO KG

Assignee(s): (std): LEONHARD KURZ STIFTUNG AND CO KG

Assignee(s): SCHAD JOHANNES ; HAHN MARTIN ; HEINRICH MATTHIAS ; HIRSCHFELDER ANDREAS

Inventor(s): (std): HEINRICH MATTHIAS ; HIRSCHFELDER ANDREAS ; SCHAD JOHANNES ; HAHN MARTIN ; MATTHIAS HEINRICH ; ANDREAS HIRSCHFELDER ; MARTIN HAHN ; JOHANNES SCHAD

Agent(s): GOWLING WLG CANADA LLP; LOUIS POEHLAU LOHRENTZ; SALVA JOAN; CREO LAW AND IP LPC; ZINSINGER NORBERT

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

20) Family number: 49092144 (MA29420B)

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Title: CARTE TRANSACTIONNELLE.

Abstract: Source: MA29420B [FR] CETTE INVENTION SE RAPPORTE A UN PROCEDE SERVANT A PRODUIRE UNE CARTE DE TRANSACTIONS OPAQUE, TRANSPARENTE OU TRANSLUCIDE AYANT DE MULTIPLES CARACTERISTIQUES, TELLES QU'UNE FEUILLE HOLOGRAPHIQUE, UNE PUCE A CIRCUIT INTEGRE, UNE BANDE MAGNETIQUE EN ARGENT COMPORTANT DU TEXTE, UN GRADIENT D'OPACITE, UN COMPOSE INVISIBLE RECONNAISSABLE OPTIQUEMENT, UN CHAMP DE SIGNATURE TRANSLUCIDE TEL QUE LA SIGNATURE AU DOS DE LA CARTE SOIT VISIBLE SUR LE DEVANT DE LA CARTE ET UNE DATE DE VALIDATION ACTIVE SUR LE DEVANT DE LA CARTE. LE COMPOSE INVISIBLE RECONNAISSABLE OPTIQUEMENT EST UNE ENCRE ET/OU UN FILM INFRAROUGE, QUI PEUT ETRE DETECTE PAR UN CAPTEUR DU TYPE SE TROUVANT DANS LES GUICHETS AUTOMATIQUES OU LES CHAINES D'ASSEMBLAGE DE CARTES.

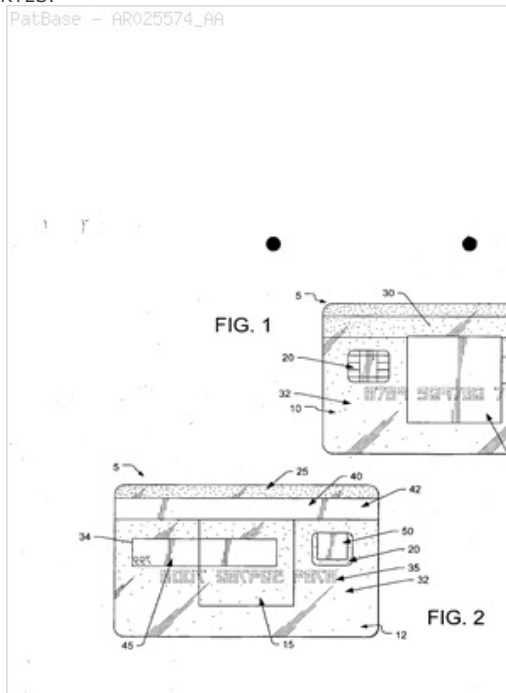
Classifications:

International (ipc 8-9): B42D15/10 C09D11/02 G06K13/08 G06K19/02 G06K19/06 G06K19/07 G06K19/077 G06K19/08 G06K19/16 (Advanced/Invention); G06K (Subclass/Invention)

International (ipc 1-7): B42D15/10 G06K13/08 G06K19/02 G06K19/07 G06K19/08 G06K19/16

CPC: B42D25/00 G06K19/07 G06K19/08 G06K19/16 B42D25/369 B42D25/382 G06K13/08 G06K19/02 B42D2033/04 B42D2033/06

European: B42D15/10 G06K13/08 G06K19/02 G06K19/07 G06K19/08 G06K19/16 L42D33/04 L42D33/06 L42D35/38



Family:

Publication number	Publication date	Application number	Application date
AR025574 AA	20021204	AR2000P104656	20000906
CR6604 A	20040427	CR20020006604	20020306
MA29420 B1	20080502	MA20020026569	20020325

Priority:

US19990153112P 19990907 US19990160519P 19991020 US19990167405P 19991124

Probable Assignee: INC AMERICAN EXPRESS TRAVEL RELATED SERVICES CO

Assignee(s): (std): AMERICAN EXPRESS TRAVEL RELATE ; INC AMERICAN EXPRESS TRAVEL RELATED SERVICES CO ; INC AMERICAN EXPRESS TRAVEL RELATED SERVICES COMPANY

Assignee(s): AMERICAN EXPRESS TRAVEL RELATED SERVICES CO INC ; AMERICAN EXPRESS TRAVEL RELATED SERVICES COMPANY INC

Inventor(s): (std): LISA WEBB ; ELLEN LASCH ; WILLIAM J JR FAENZA ; JUDY VIGILETTI ; VIGILETTI JUDY ; WEBB LISA ; LASCH ELLEN ; FAENZA WILLIAM J JR

Inventor(s): FAENZA WILLIAM J

21) Family number: 42756149 (US2008316556A)

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Abstract: A major object of the present invention is to provide a volume hologram transfer foil that gives a volume hologram laminate higher in antiforgery function, The present invention achieves the object by providing a volume hologram transfer foil comprising: a substrate, a volume hologram layer carrying a recorded volume hologram that is formed on the substrate, and an image forming layer carrying a formed image and a heat seal layer containing a thermoplastic resin that are formed on the volume hologram layer, and comprising no reflective layer having a function to reflect light.

Classifications:

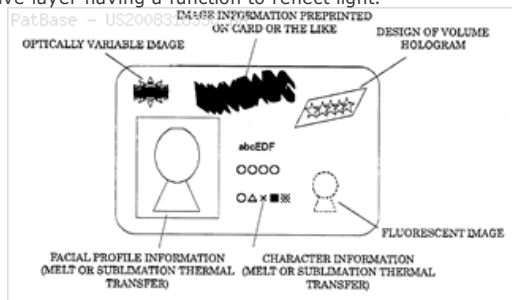
International (IPC 8-9): B32B7/02 B42D15/00 B42D15/10 B42D25/00 B42D25/29 B44C1/17 G02B5/32 G03H1/00 G03H1/02 G03H1/04 G03H1/18 G03H1/22 G09F3/02 (Advanced/Invention); B42D25/29 B42D25/328 B42D25/455 B44C1/17 (Advanced/Non-invention);

B32B7/02 B42D15/10 B44C1/17 G02B5/32 G03H1/02 G03H1/18 G09F3/02 (Core/Invention)

CPC: B42D25/29 B42D25/328 B42D25/387 B42D2035/06 B42D2035/08 B42D2035/24 B44C1/1704 G03H1/02 G03H1/0248 G03H1/0256 G03H2001/2234 G03H2222/15 G03H2250/10 G03H2250/40 B42D25/455 G03H1/0011

European: B42D15/00C B42D15/10D B44C1/17B G03H1/02 G03H1/02L5 L42D35/06 L42D35/08 L42D35/22 L42D35/24 L42D35/40 S03H1/02H2 S03H1/22A2T S03H222/15 S03H250/10 S03H250/40

US: 283/86 359/2 359/3 359/3P 430/2 430/2S



Family:

Publication number	Publication date	Application number	Application date
■ CN101329546 A	20081224	CN200810128515	20080619
■ CN101329546 B	20110112	CN200810128515	20080619
■ CN101943881 A	20110112	CN201010229864	20080619
■ CN101943881 B	20130821	CN201010229864	20080619
■ DE602008036312 D1	20150226	DE200860036312T	20080618
■ EP2009516 A2	20081231	EP20080158508	20080618
■ EP2009516 A3	20091118	EP20080158508	20080618
■ EP2009516 B1	20170809	EP20080158508	20080618
■ EP2309340 A1	20110413	EP20100194244	20080618
■ EP2309340 B1	20150107	EP20100194244	20080618
■ EP3244268 A1	20171115	EP20170161907	20080618
■ EP3244268 A3	20180725	EP20170161907	20080618
■ JP2009003032 A2	20090108	JP20070161854	20070619
■ JP2009003197 A2	20090108	JP20070164328	20070621
■ JP2012150486 A2	20120809	JP20120040382	20120227
■ JP4985137 B2	20120725	JP20070161854	20070619
■ JP5310891 B2	20131009	JP20120040382	20120227
■ US2008316556 AA	20081225	US20080140457	20080617
■ US2014016167 AA	20140116	US20130023960	20130911
■ US8559084 BB	20131015	US20080140457	20080617
■ US8861056 BB	20141014	US20130023960	20130911

Priority:

JP20070161854 20070619 JP20070164328 20070621 US20080140457 20080617
 EP20080158508 20080618 EP20100194244 20080618 JP20120040382 20120227
 US20130023960 20130911

Probable Assignee: DAINIPPON PRINTING CO LTD

Assignee(s): (std): AWANO KAZUTOSHI ; AZAKAMI MINORU ; DAINIPPON PRINTING CO LTD ; UEDA KENJI ; ETO KOJI

Assignee(s): DAI NIPPON PRINTING CO ; DAI NIPPON PRINTING CO LTD ; DAINIPPON PRINTING CO

Inventor(s): (std): UEDA KENJI ; ETO KOJI ; AWANO KAZUTOSHI ; AZAKAMI MINORU ; MINORU AZAKAMI ; KENJI UEDA ; KOJI ETO ; KAZUTOSHI AWANO ; AZAGAMI MINORU ; MINORU AZAGAMI

Agent(s): WITTMANN HERNANDEZ PATENTANWALTE PARTNERSCHAFT MBB; SMART PETER JOHN; BECK GREENER; SELDEN DEBORAH ANNE; LADAS AND PARRY LLP

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

22) Family number: 46625150 (US2010213189A)

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Title: HEATED PLANAR ELEMENT

Abstract: The invention provides a planar element which is intrinsically heatable and which is particularly suitable for attachment to multi-dimensionally curved surfaces. For this purpose the planar element features particularly high deformability, achieved in accordance with the invention through a planar element having a layer sequence comprising a heating layer and a contacting layer, each of these two layers being composed of a polymeric material based on elastomers and/or on plastic polymers which have a particular elongation at break and at the same time a particular tensile elasticity modulus. Furthermore, the invention provides an adhesively bonded assembly comprising a bonding substrate and a planar element of the aforesaid kind, a method of producing a planar element of the aforesaid kind, and the use of such a planar element for heating an adhesively bonded assembly.

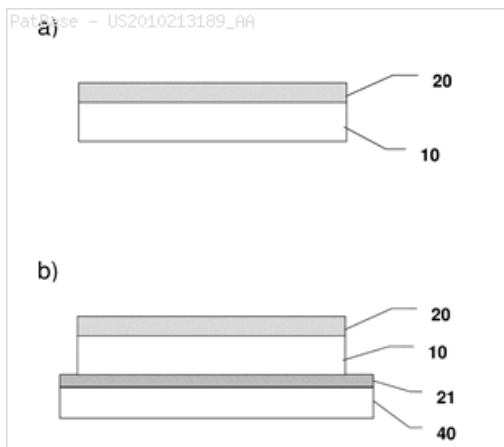
Classifications:

International (IPC 8-9): B29C47/06 B60J1/20 B60R1/06 C09J9/02 H05B3/10 H05B3/12 H05B3/14 H05B3/20 H05B3/34 H05B3/36 H05B3/84 (Advanced/Invention);

B60L1/02 B60S1/02 B60S1/58 B60S1/60 (Advanced/Non-invention); B60J1/20 B60R1/06 C09J9/00 H05B3/10 H05B3/12 H05B3/34 (Core/Invention)

CPC: B60L2200/26 B60R1/0602 H05B3/146 H05B3/34 H05B3/845 H05B2203/006 H05B2203/02 H05B2203/029 H05B2214/04 Y02T90/16

European: B60R1/06C H05B3/14P H05B3/34 H05B3/84E T05B203/006 T05B203/020 T05B203/029 T05B214/04



Family:

Publication number	Publication date	Application number	Application date
AT557572 E	20120515	AT20100153412T	20100212
CN101848565 A	20100929	CN201010187165	20100226
CN101848565 B	20130731	CN201010187165	20100226
DE102009010437 A1	20100902	DE200910010437	20090226
DE502010000675 D1	20120705	DE201050000675T	20100212
EP2224784 A1	20100901	EP20100153412	20100212
EP2224784 B1	20120509	EP20100153412	20100212
ES2386762 T3	20120829	ES20100153412T	20100212
JP2010199071 A2	20100909	JP20100040689	20100225
JP5539752 B2	20140702	JP20100040689	20100225
KR101650440 B1	20160823	KR20100018212	20100226
KR20100097629 A	20100903	KR20100018212	20100226
MX2010001984 A1	20100825	MX20100001984	20100219
RU2010107095 A	20110827	RU20100107095	20100225
US2010213189 AA	20100826	US20100712696	20100225
US8283612 BB	20121009	US20100712696	20100225

Priority:

DE200910010437 20090226 EP20100153412 20100212

Probable Assignee: TESA SE

Assignee(s): (std): DIETZ BERND ; DOMANN FRANK ; DOMINIKAT UDO ; ELLRINGMANN UTE ; JUNGHANS MONIKA ; TESA SE ; RAMM VERONIKA ; KEITE TELGENBUESCHER KLAUS

Inventor(s): (std): DOMINIKAT UDO ; RAMM VERONIKA ; JUNGHANS MONIKA ; DOMANN FRANK ; DIETZ BERND ; DEITZ BERND ; KLAUS KEITE TELGENBUESCHER ; UTE ELLRINGMANN ; BERND DIETZ ; VERONIKA RAMM ; UDO DOMINIKAT ; MONIKA JUNGHANS ; FRANK DOMANN ; ELLRINGMANN UTE DR ; KEITE TELGENBUESCHER KLAUS DR ; KEITE TELGENBUESCHER KLAUS ; ELLRINGMANN UTE

Agent(s): BRISCOE KURT G NORRIS MCLAUGHLIN AND MARCUS PA; NORRIS MCLAUGHLIN AND MARCUS PA

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

23) Family number: 28850161 (US2002072561A)

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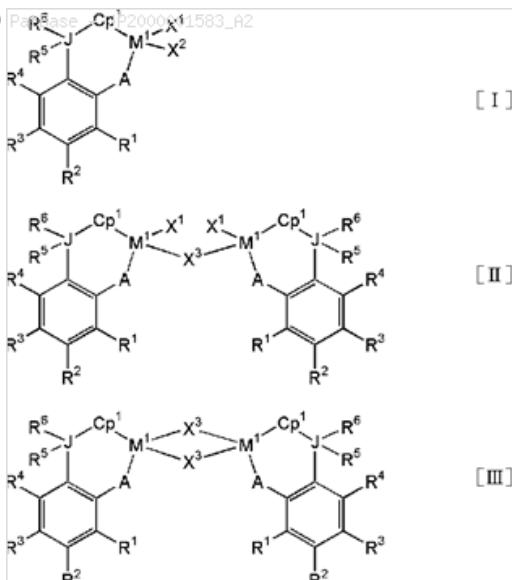
Title: OLEFIN-BASED COPOLYMER COMPOSITION

Abstract: An olefin-based copolymer composition comprising the following component (a) in combination with any one component selected from the following components (b) to (i): (a): an olefin-based copolymer obtained by copolymerizing two or more olefins, wherein the olefins are selected from the group consisting of ethylene, propylene and alpha-olefins having 4 to 20 carbon atoms, and the total number of carbon atoms of the two or more selected olefins is 6 or more; (b): a crystalline alpha-olefin-based polymer comprising an alpha-olefin having 3 or more carbon atoms; (c): the following component (c-1) and/or component (c-2), (c-1): a block copolymer comprising (cH) a polymer block containing a vinyl aromatic compound and (cS) a polymer block containing a conjugated diene compound, (c-2): a hydrogenated product of the block copolymer recited in (c-1); (d): the component (b) in combination with an isobutylene-isoprene copolymer rubber and/or halogenated isobutylene-isoprene copolymer rubber; (e): the component (b) in combination with a tackifier resin; (f): the component (b), a component (f-1) which is an ethylene-propylene (non-conjugated diene) random copolymer rubber, and a component (f-2) which is an inorganic filler; (g): a component (g-1) and/or (g-2), (g-1): a benzotriazole light stabilizer having a benzotriazole skeleton and having a molecular weight of 100 to 5,000, (g-2): a hindered amine light stabilizer having a piperidyl group in its molecular skeleton and having a molecular weight of about 200 or more; (h): the component (f-1) in combination with the component (b) and/or an ethylene-based polymer having an ethylene content of 90 mol percent or more; and (i): the component (b) and the inorganic filler (f-2).

Classifications:

International (IPC 8-9): B32B25/08 B32B27/32 B32B27/34
C08F10/00 C08F210/00 C08F210/16 C08F4/64 C08F4/642
C08F4/645 C08F4/659 C08F4/6592 C08K3/00 C08K5/3435
C08K5/3492 C08L23/00 C08L23/02 C08L23/04 C08L23/08
C08L23/10 C08L23/14 C08L23/16 C08L23/18 C08L23/20 C08L23/22
C08L45/00 C08L53/02 C08L9/00 (Advanced/Invention);
C08F210/16 C08L23/08 C08L23/16 C08L23/22
C08L53/00 (Advanced/Non-invention);
B32B25/00 B32B27/32 B32B27/34 C08F10/00 C08F210/00 C08F4/00
C08K3/00 C08K5/00 C08L23/00 C08L45/00 C08L53/00
C08L9/00 (Core/Invention);
C08F210/00 (Core/Non-invention)
International (IPC 1-7): B32B25/08 B32B27/32 B32B27/34
C08F10/00 C08F210/00 C08F210/16 C08F4/64 C08F4/642

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C08L23/02 C08L23/04 C08L23/08 C08L23/10 C08L23/14 C08L23/16
C08L23/18 C08L23/20 C08L23/22 C08L45/00 C08L47/00 C08L53/00
C08L53/02 C08L9/00
CPC: C08L23/142 C08L23/22 C08L53/00 C08L2314/06
Y10T428/31725 Y10T428/31909 C08L23/10 C08L23/0815 C08L23/16
European: C08L23/10 C08L23/14A M08L23/08A1 M08L23/16
M08L23/22 M08L314/06 M08L53/00
US: 428/474.4 428/515 524/500 524/505 525/191 525/240 525/88
525/92B 525/95 525/95S 525/96 525/96S 525/97 525/97S 525/98
525/98S



Family:

Publication number	Publication date	Application number	Application date
DE19905292 A1	19991021	DE19991005292	19990209
JP11293047 A2	19991026	JP19990019974	19990128
JP11293058 A2	19991026	JP19980104682	19980415
JP11293060 A2	19991026	JP19990023742	19990201
JP11293061 A2	19991026	JP19990023743	19990201
JP11293066 A2	19991026	JP19990018195	19990127
JP11302473 A2	19991102	JP19990028892	19990205
JP11310671 A2	19991109	JP19990028893	19990205
JP11314327 A2	19991116	JP19990019975	19990128
JP11315176 A2	19991116	JP19990044822	19990223
JP11323035 A2	19991126	JP19990044823	19990223
JP11335489 A2	19991207	JP19990071811	19990317
JP11343371 A2	19991214	JP19990073667	19990318
JP11349744 A2	19991221	JP19990092985	19990331
JP2000001582 A2	20000107	JP19990092988	19990331
JP2000001583 A2	20000107	JP19990092989	19990331
US2002072561 AA	20020613	US19990244659	19990210
US6632541 BB	20031014	US19990244659	19990210

Priority:

JP19980028906 19980210	JP19980028907 19980210	JP19980031288 19980213
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Probable Assignee: SUMITOMO CHEMICAL CO LTD

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

Assignee(s): SUMITOMO CHEMICAL CO LTD ; SUMITOMO CHEMICAL COMPANY LIMITED ; HOZUMI HIDETAKE ; JOHOJI HIROFUMI ; NISHIYAMA TADAAKI ; SUMITOMO CHEM CO LTD

Inventor(s): (std): JOHOJI HIROFUMI ; JOHOJI HIROBUMI ; JIYOUHOUJI HIROBUMI ; HOZUMI HIDETAKE ; NISHIYAMA TADAAKI

Agent(s): KUBOYAMA TAKASHI

24) Family number: 43112162 (US2010061115A)

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Title: ONE-WAY SEE-THROUGH ILLUMINATION SYSTEM

Abstract: A one-way see-through illumination system is constructed from a light guide panel, a front-illuminable image film, and a light injector. The light injector injects light into the light guide panel at a suitable angle for total internal reflection of the injected light at the surfaces of the light guide panel. The image film includes a half-toned front-illuminable image pattern that extracts light from the light guide panel. When active, light from the light guide panel front illuminates the image pattern for viewing by a front-side view, while a back-side viewer can see through the image pattern.

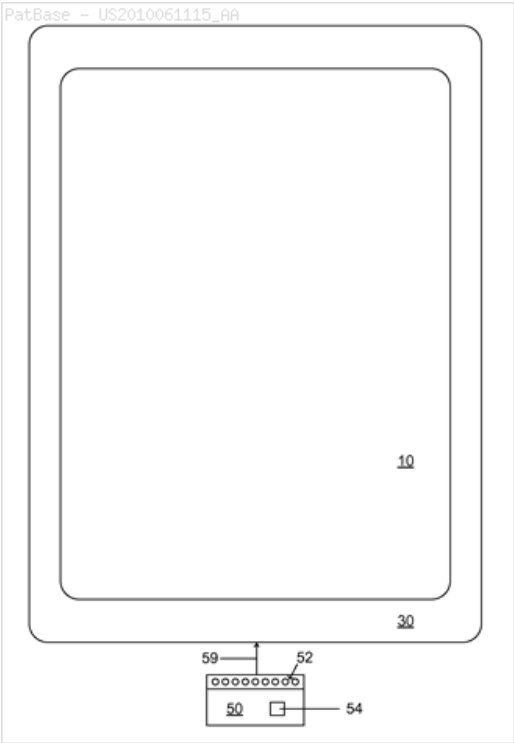
Classifications:

International (IPC 8-9): B32B37/14 F21V11/00 F21V7/04 F21V7/22
F21V8/00 G09F13/18 (Advanced/Invention);
B32B37/14 F21V11/00 F21V7/00 (Core/Invention)

CPC: G02B5/20 G02B2027/0178 Y10T156/1093 G02C11/04
G02B5/02 G02B6/0055 G02B6/006 G02B27/0172 G02B2027/0112

European: G02B27/01C1 G02B6/00L6O8R G02C11/04
S02B27/01A3 S02B27/01C3 S02B5/02 S02B5/20 S02B6/00L6O16B

US: 156/290 156/290S 156/300 156/300S 362/103 362/105
362/105S 362/23.19 362/30 362/351 362/351S 362/602 362/602P



Family:

Publication number	Publication date	Application number	Application date
■ US2010061115 AA	20100311	US20090419284	20090406
■ US2012134172 AA	20120531	US20110136799	20110810
■ US7513674 BA	20090407	US20060336263	20060120
■ US8100575 BB	20120124	US20090419284	20090406
■ US8511884 BB	20130820	US20110136799	20110810

Priority:

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Probable Assignee: GLOTECH INC

Assignee(s): (std): DONAHUE KEVIN G ; DONAHUE KEVIN GERARD ; DONAHUE INV S LLC

Assignee(s): DONAHUE INVENTIONS LLC ; COLLINS BRIAN ; DOWNEY WALTER ; GLOTECH INC ; SAVVYSHERPA INC ; YUAN JOHN

Inventor(s): (std): DONAHUE KEVIN G ; DONAHUE KEVIN GERARD

Agent(s): RD JOHNSON AND ASSOCIATES PC; JOHNSON IP LAW FIRM; JOHNSON ESQ RODNEY D; RODNEY D; KRIEGSMAN AND KRIEGSMAN

25) Family number: 49777171 (US2013033840A)

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Title: TRANSFER METHOD FOR MANUFACTURING CONDUCTOR STRUCTURES BY MEANS OF NANO-INKS

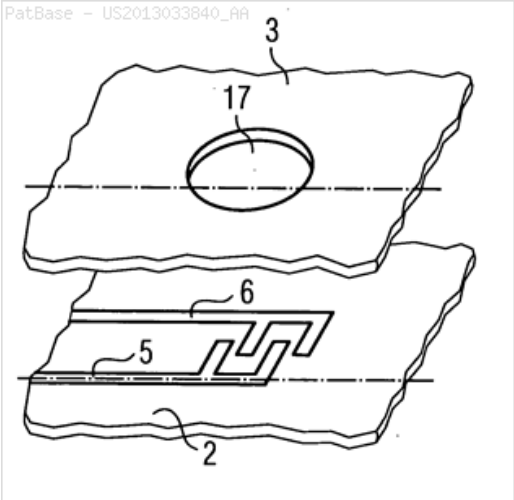
Abstract: A method for equipping a film material with at least one electrically conductive conductor structure, wherein a dispersion containing metallic nanoparticles in the form of a conductor structure is applied to a thermostable transfer material and the metallic nanoparticles are sintered to form an electrically conductive conductor structure. The electrically conductive conductor structure of sintered metallic nanoparticles is then transferred from the thermostable transfer material to the non-thermostable film material. A method for producing a laminate material using the film material using at least one electrically conductive conductor structure, and to the corresponding film material and laminate material are described.

Classifications:

International (IPC 8-9): B22F3/10 B22F5/00 B22F7/00 B22F7/02 B22F7/04 G06K19/06 G06K19/073 G06K19/077 H01B5/00 H05K1/09 H05K1/18 H05K3/10 H05K3/12 H05K3/20 H05K7/04 (Advanced/Invention); B82Y99/00 H05K3/12 (Advanced/Non-invention)
CPC: G06K19/07345 G06K19/07718 H01L2224/48091 H01L2224/48227 H05K1/097 H05K3/12 H05K3/1275 H05K3/207 H05K2203/1131 H05K2203/1545 Y10T428/12014 B22F3/10 B22F5/00 B22F7/008 B22F7/04 H01B5/00 H05K1/092 H05K1/181 H05K3/202 H05K2203/06

European: G06K19/073A4 G06K19/077D H05K3/20G T05K1/09D4 T05K203/11F T05K203/15E T05K3/12 T05K3/12G

US: 1/1 156/233 174/126.1 361/748 361/783 361/813 419/9 428/546 977/773 977/932



Family:

Publication number	Publication date	Application number	Application date
■ CN102948267 A	20130227	CN201180030508	20110419
■ CN102948267 B	20170613	CN201180030508	20110419
■ DE102010015659 A1	20111020	DE201010015659	20100420
■ DE502011007197 D1	20150813	DE201150007197T	20110419
■ EP2561730 A1	20130227	EP20110716834	20110419
■ EP2561730 B1	20150701	EP20110716834	20110419
■ US2013033840 AA	20130207	US20110642006	20110419
■ US2015239044 AA	20150827	US20150706613	20150507
■ US2015239047 AA	20150827	US20150706640	20150507
■ US2015245496 AA	20150827	US20150706629	20150507
■ US9403211 BB	20160802	US20110642006	20110419
■ US9550234 BB	20170124	US20150706640	20150507
■ WO11131353 A1	20111027	WO2011EP01998	20110419

Priority:

DE201010015659 20100420 EP20110716834 20110419 WO2011EP01998 20110419
US20120642006 20121018 US20150706629 20150507 US20150706613 20150507
US20150706640 20150507

Probable Assignee: GIESECKE AND DEVRIENT GMBH

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Assignee(s): GIESECKE AND DEVRIENT MOBILE SECURITY GMBH

Inventor(s): (std): WELLING ANDO ; WELLING ANDO DR

Agent(s): WORKMAN NYDEGGER; GIESECKE AND DEVRIENT GMBH

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

26) Family number: 50452172 (US2012006902A)

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Title: TRANSACTION CARD

Abstract: The present invention relates to a process for producing a transparent or translucent transaction card having multiple features. An optically recognizable compound may be associated with a portion of the card for blocking infrared radiation and may comprise an infrared ink having nanocrystalline indium tin oxide particles. Moreover, a portion of the transaction card may include a second optically recognizable compound disposed thereon. The second optically recognizable compound may comprise an infrared phthalocyanine dye, an infrared phosphor, and a quantum dot energy transfer compound. The infrared ink may be detected by a sensor found in an ATM or card assembly line.

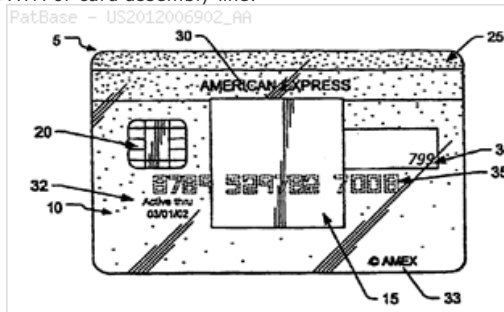
Classifications:

International (IPC 8-9): G06K19/00 G06K19/02 (Advanced/Invention); B82Y20/00 (Advanced/Non-invention)

CPC: B42D25/00 B42D25/351 B42D25/382 B41M3/14 B42D2033/04 B42D2033/20 B42D2033/30

European: B41M3/14 B42D15/10 L42D31/04 L42D33/20 L42D35/38

US: 235/487 235/487S 235/488 235/488P 235/491 977/774 977/774S



Family:

Publication number	Publication date	Application number	Application date
■ US2012006902 AA	20120112	US20110244193	20110923
■ US8186598 BB	20120529	US20110244193	20110923

Priority:

US20070879468 20070717 US20080124937 20080521 US20110244193 20110923

Probable Assignee: LIBERTY PEAK VENTURES LLC

Assignee(s): (std): AMERICAN EXPRESS TRAVEL RELATE ; FAENZA JR WILLIAM J

Assignee(s): III HOLDINGS 1 LLC ; LIBERTY PEAK VENTURES LLC ; AMERICAN EXPRESS TRAVEL RELATED SERVICES CO INC ; AMERICAN EXPRESS TRAVEL RELATED SERVICES COMPANY INC

Inventor(s): (std): FAENZA JR WILLIAM J

Agent(s): SNELL AND WILMER LLP

27) Family number: 43212179 (US2010260985A)

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Title: POLYMER LAYER COMPOSITE FOR A SECURITY AND/OR VALUABLE DOCUMENT

Abstract: The invention relates to a method for producing a polymer layer composite that comprises a plurality of polymer layers and at least one polymer layer contains a laser-sensitive component, said method consisting of the following steps: A) first personalised information is applied to at least one of the polymer layers by means of an inkjet printing method as a coloured inkjet printed layer, B) the polymer layer with the coloured inkjet printed layer is then joined to the other polymer layers, the polymer layer with the coloured inkjet printed layer being arranged between two other polymer layers, C) second personalised information is inscribed into the polymer layer composite obtained in step B) by means of laser engraving. The invention also relates to a thus obtained polymer layer composite, a security and/or valuable document comprising a

polymer layer composite of said type and to a method for producing a security and/or valuable document of said type.

Classifications:

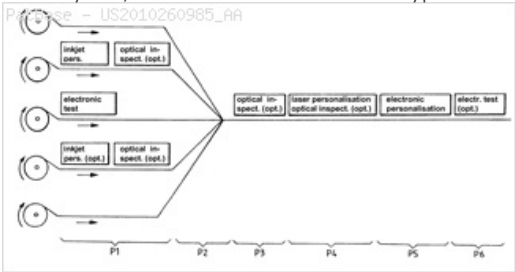
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International (IPC 1-7): B29C45/16 B41M3/10 B41M3/14 C08G64/16 C09D11/00 G07D7/00

CPC: Y10T428/24612 Y10T428/24876 Y10T428/24934 B32B2307/4026 B32B2307/41 B32B2307/422 B32B2307/40 B32B2554/00 B42D25/30S B42D25/36 B42D25/46S B42D25/43S B42D25/41S B42D25/23 B42D25/24 B42D25/26 G07D7/0034 B32B38/0008 B41M5/0064 B32B2457/00 B41M5/0047 B41M5/24 B42D25/29 B41M3/10 B32B3/08 B32B7/12 B32B27/18 B32B27/308 B32B2250/02 B32B2250/242 B32B2250/244 B32B2250/246 B32B2255/26 B32B27/00 B42D25/43 B42D2033/30 B42D2033/32 B32B27/06 B32B2429/00 B32B2581/00 Y10T428/24802 B42D25/333 B42D25/351 B42D25/47 C08G64/06 C09D11/36 Y10T428/24479 Y10T428/24521 B29C45/0003 B29K2069/00 B29L2009/00 B32B37/06 B32B2369/00 B42D25/378 B42D25/40 C09D11/102 B32B3/02 B32B7/03 B32B7/10 B32B27/08 B32B27/20 B32B27/281 B32B27/30 B32B27/304 B32B27/32 B32B27/36 B32B27/36S B32B27/40 B32B38/14S B32B2255/10 B32B2307/412 B32B2307/414 B32B2307/75 B32B2425/00 B41M3/14 B41M3/148 B42D25/00 B42D25/309 B42D25/41 B42D25/45 B42D25/45S B42D2033/20 B42D2035/06 B42D2035/12 B42D2035/16 B32B27/10 B32B2250/24 B32B2274/00 B32B2307/402 B32B2307/4023 B32B2307/51 B42D2035/50 B42D25/21

European: B32B27/06 B32B27/18 B32B38/14A B41M3/10 B41M3/14 B41M3/14T B42D15/10 C09D11/36 G07D7/00B4 L32B425/00 L32B429/00 L41M3/14T L42D31/04 L42D31/08 L42D31/22 L42D33/20 L42D35/06 L42D35/12 L42D35/16 L42D35/18 L42D35/34 L42D35/50 M08G64/06

US: 1/1 156/272.8 156/272.800S 156/277 156/277S 156/64 219/121.72 219/121.720S 235/488 235/488S 264/132 264/132S 283/109 283/109P 283/113 283/113S 283/72 283/72P 283/73 380/243 382/100 382/100P 382/306 427/555 427/8 428/161 428/161S 428/172 428/172P 428/195.1 428/195.100S 428/201 428/204 428/211.1 428/211.100P 428/29 428/29S 524/317 524/599 524/599S 524/611 524/611S



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Priority:

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Probable Assignee: COVESTRO DEUTSCHLAND AG

Assignee(s): (std): BAYER MATERIALSCIENCE AG ; BUNDESDRUCKEREI GMBH ; BAYER MATERIAL SCIENCE LLC ; BUNDESDRUCKERAJ GMBKH ; PFLUGHOEFFT MALTE ; YESILDAG CENGIZ ; MATHEA ARTHUR ; EHREKE JENS ; PUDLEINER HEINZ ; MEYER KLAUS ; MUTH OLIVER ; PAESCHKE MANFRED ; HAGEMANN MICHAEL ; DRESSSEL OLAF ; FISCHER JOERG ; SPRINGMANN EDWARD ; LEOPOLD ANDRE ; COVESTRO DEUTSCHLAND AG ; BAJER MATIRIELSAJENS AG ; BAJER MATIRIELSAJENS AKTSIENGEZEL SHAFT ; BAYER MATERIAL SCIENCE AG ; BAYER MAT SCIENCE AG ; BAYER MAT AG ; BOSIEN ANDREAS

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Inventor(s): PFLUGKHEFFT MALTE ; OLAF DRESSSEL ; LEOPOLD ANDRE

Agent(s): PIZZEYS PATENT AND TRADE MARK ATTORNEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; MARKS AND CLERK; RICHES MCKENZIE AND HERBERT LLP; PATENTANWALTE BRESSEL U PARTNER MBB; JUNGBLUT AND SEUSS PATENTANWALTE; JUNGBLUT BERNHARD JAKOB; PATENTANWALTE BRESSEL UND PARTNER; BRESSEL BURKHARD; ISERN JORGE; LEHMANN MARIA ISABEL; ELISAVET YAKOVIDIS CINLEMEZ; MAYER AND WILLIAMS PC; LERNER GREENBERG STEMER LLP; ANN; LAURENCE A; WERNER H; RALPH E; MAYER STUART H; GREENBERG LAURENCE A; STEMER WERNER H; LOCHER RALPH E; JUNGBLUT BERNHARD ET AL; BRESSEL UND PARTNER

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

28) Family number: 59779182 (US2015199599A)

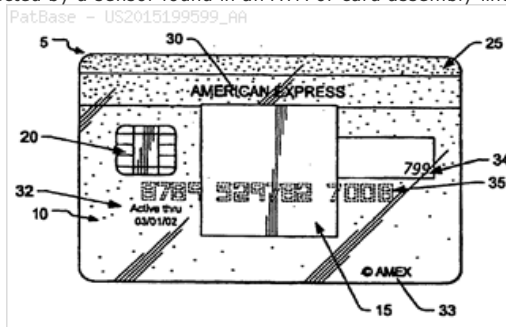
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Title: TRANSACTION CARD

Abstract: The present invention relates to a process for producing an opaque, transparent or translucent transaction card having multiple features, such as a holographic foil, integrated circuit chip, silver magnetic stripe with text on the magnetic stripe, opacity gradient, an invisible optically recognizable compound, a translucent signature field such that the signature on back of the card is visible from the front of the card and an active thru date on the front of the card. The invisible optically recognizable compound is preferably an infrared ink comprising an infrared phthalocyanine dye, an infrared phosphor, and a quantum dot energy transfer compound. The infrared ink can be detected by a sensor found in an ATM or card assembly line.

Classifications:

International (ipc 8-9): B32B37/02 B32B38/00 B41M3/14 B42D25/00 B42D25/378 B42D25/382 B42D25/45 C09D11/037 C09D11/32 C09D11/50 G06K19/00 G06K19/02 (Advanced/Invention) **CPC:** G06K19/02 G06K19/022 B32B37/02 B32B2307/412 B32B2307/422 B32B2327/06 B32B2425/00 B42D2033/04 B42D2033/14 B42D2033/30 B42D2033/44 B41M3/14 B42D25/00 B42D2033/20 C09D11/037 C09D11/32 C09D11/50 B32B38/145 B42D25/378 B42D25/382 B42D25/45 B42D25/351 B42D2035/34 **US:** 156/67 235/488



Family:

Publication number	Publication date	Application number	Application date
US2015199599 AA	20150716	US20150595087	20150112
US9519851 BB	20161213	US20150595087	20150112

Priority:

US19990153112P	19990907	US19990160519P	19991020	US19990167405P	19991124
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US20020092681	20020307	US20030394914	20030321	US20070879468	20070717
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Probable Assignee: III HOLDINGS 1 LLC

Assignee(s): (std): III HOLDINGS 1 LLC

Assignee(s): LIBERTY PEAK VENTURES LLC

Inventor(s): (std): FAENZA WILLIAM J ; MORRILL WEB LISA ANN

Agent(s): MEYERTONS HOOD KIVLIN KOWERT AND GOETZEL PC

29) Family number: 58340186 (US2016161198A)

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Title: HEAT / ENTHALPY EXCHANGER ELEMENT AND METHOD FOR THE PRODUCTION

Abstract: Methods, plate elements and heat/enthalpy exchangers. a) perforating an unformed plate element with defined outer dimensions in any desired area and in any desired dimension; b) covering at least one side of the unformed plate element with a thin polymer film with latent energy exchange characteristics and; c) forming the plate element into a desired shape and a pattern of corrugations and/or embossing. The operations b) and c) may be performed in a different order. For instance, when the plate element is made out of plastic, b) may be performed before c) whereas, when the plate element is made out of aluminum (or plastic), c) may be performed before b). Operations a) and/or b) and/or c) may also, in certain embodiments, be combined.

Classifications:

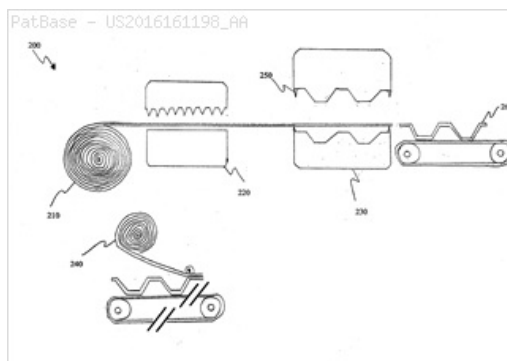
International (IPC 8-9): B23P15/26 B29C51/08 B29C51/10 B29C51/26 B32B27/08 B32B3/24 B32B3/28 B32B37/02 B32B38/04 B32B38/06 B32B38/12 F28D21/00 F28D9/00 F28F13/18 F28F19/04 F28F21/06 F28F21/08 F28F3/02 F28F3/04 F28F9/16

F28F9/18 (Advanced/Invention);

B29C51/02 B29C51/08 B29C51/14 B29C51/32 B29K105/00 B29L31/18 B29L9/00 B32B37/12 B32B37/20 B32B38/06 B32B38/12 F28D21/00 F28F21/06 (Advanced/Non-invention)

CPC: F28F21/066 F28F21/081 F28F21/084 F28F9/162 F28F9/18 B23P15/26 B29C51/02 B29C51/082 B29C51/105 B29C51/14 B29C51/32 B29L2009/001 B29L2031/18 B32B37/12 B32B37/203 B32B38/04 B32B38/06 B32B38/12 B32B2038/047 B32B2307/724 F28D21/0015 F28F21/06 F28F21/08 F28F2255/08 F28F2275/02 F28F2275/04 F28F2275/06 B29C51/265 B29K2105/0085 B29K2105/256 F28F3/02 F28F13/18

US: 156/210 165/133 29/890.03



Family:

Publication number	Publication date	Application number	Application date
CA2872185 AA	20141114	CA20142872185	20140711
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DE602014028040 D1	20180802	DE201460028040T	20140711
EP3022508 A1	20160525	EP20140826884	20140711
EP3022508 A4	20170315	EP20140826884	20140711
EP3022508 B1	20180704	EP20140826884	20140711
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JP2016529464 T2	20160923	JP20160526381T	20140711
JP6585590 B2	20191002	JP20160526381T	20140711
KR20160034374 A	20160329	KR20167004452	20140711
US2016161198 AA	20160609	US20140906205	20140711
US10415900 BB	20190917	US20140906205	20140711
WO15006856 A1	20150122	WO2014CA00566	20140711

Priority:

US20130856306P 20130719 EP20140826884 20140711 WO2014CA00566 20140711
US20140906205 20140711

Probable Assignee: WESTWIND LTD

Assignee(s): (std): RIENDEAU MARCEL ; WESTWIND LTD

Inventor(s): (std): RIENDEAU MARCEL

Inventor(s): RIENDEAU MARCEL SHEFFORD

Agent(s): GOWLING LAFLEUR HENDERSON LLP; RAUSCH WANISCHECK BERGMANN BRINKMANN PARTNERSCHAFT MBB PATENTANWALTE; STENGER WATZKE RING; RAUSCH WANISCHECK BERGMANN BRINKMANN; TEMINO IGNACIO; TAKANO TOSHIO; PATENT CORPORATE BODY ARUGA PATENT OFFICE; MURATA MASAKI; NAKAJIMA TOSHIO; YAMAMOTO HIROTO; LEASON ELLIS LLP; YELLE BENOIT

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

30) Family number: 28575187 (US6569510B)

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Title: RETRO-FLECTIVE SHEETING ON METAL COIL COMPOSITES

Abstract: A retroflective laminated composite metal product and process for preparing reflective information markers in use where high volume traffic or construction areas require signage is provided, wherein the product exhibits excellent adhesion bonding characteristics between the aluminum surface and the adhesion backed retroflective surface, provides high rigidity and ease of fabrication while still passing the requirements of NCHRP 350.

Classifications:

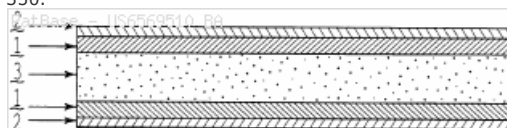
International (IPC 8-9): B32B15/04 B32B15/08 B32B15/18 B32B15/20 (Advanced/Invention); B32B15/04 B32B15/08 B32B15/18 B32B15/20 (Core/Invention)

International (IPC 1-7): B32B15/08

CPC: B32B15/20 B32B15/04 B32B15/08 B32B15/18 Y10T428/12493 Y10T428/12632 Y10T428/24479

European: B32B15/04 B32B15/08 B32B15/18 B32B15/20

US: 359/883 359/900 428/156 428/615 428/635



Family:

Publication number	Publication date	Application number	Application date
US6569510 BA	20030527	US20000562006	20000502

Priority:

US20000562006 20000502

Probable Assignee: KORMAN WILLIAM

Assignee(s): (std): KORMAN WILLIAM ; MENON HARI

Inventor(s): (std): KORMAN WILLIAM ; MENON HARI

31) Family number: 34245195 (WO07024034A1)

Title: EYELET FOR RADIO FREQUENCY IDENTIFICATION AND METHOD FOR MANUFACTURING THE EYELET

Abstract: An RFID eyelet and a method of manufacturing the RFID eyelet are provided. The RFID eyelet includes: an eyelet base made of a conductive material and including a rim which is contacted to an object, wherein the eyelet base includes a barrel integrally formed with the rim, the barrel passing through the object and fixed to the object, a slit is formed in the eyelet base, a high resistance portion is formed based on the slit and longitudinally formed in the eyelet base; and an RFID circuit module electrically connected to each of separated portions which are separated by the slit and forming a circuit which uses the eyelet base as an antenna. In an RFID tag, a conductive material may interfere with smooth data transmission and reception, however in the present invention, smooth data transmission and reception may be accomplished by using the conductive material as an antenna, therefore productivity may be improved, manufacturing costs for the RFID tag may be reduced, and firm engaging may be provided by using a convention eyelet structure.

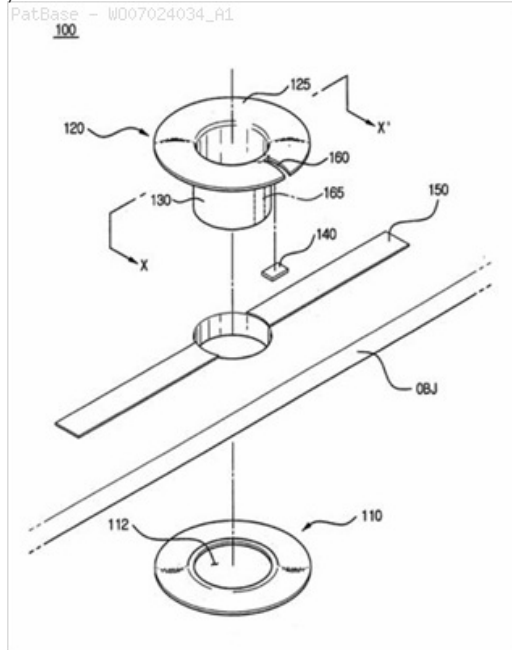
Classifications:

International (IPC 8-9): G06K19/07 (Advanced/Invention);

G06K19/07 (Core/Invention)

CPC: G06K19/07749

European: G06K19/077T



Family:

Publication number	Publication date	Application number	Application date
WO07024034 A1	20070301	WO2005KR02793	20050824

Priority:

WO2005KR02793 20050824

Probable Assignee: RFCAMP LTD

Assignee(s): (std): RFCAMP LTD ; RYU JAE HYUNG ; RYU YONG WOONG

Inventor(s): (std): RYU YONG WOONG ; RYU JAE HYUNG

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

32) Family number: 30431198 (US2002009571A)

Title: FLOCKED TRANSFER AND ARTICLE OF MANUFACTURE INCLUDING THE APPLICATION OF THE TRANSFER BY THERMOPLASTIC POLYMER FILM

Abstract: A flocked transfer is produced by applying a release agent to a release sheet, and then applying the flocking to a release agent. Unlike the traditional method, a binder and thermoplastic hot melt film is applied to the back of the flock. The transfer, which is essentially release sheet, is then applied to a substrate, such as item of clothing, a rubber pad, etc., by positioning a sheet of thermoplastic hot melt film on the substrate; placing the transfer on the hot melt with the flock in contact with the hot melt film; and applying heat and pressure. The heat melts the thermoplastic hot melt film to bind the flock to the substrate and binds the flocking together. This method reduces the cost involved in producing flocked articles, especially for articles produced on a continuous basis.

Classifications:

International (IPC 8-9): B05D B05D1/14 B05D1/16 B05D1/36

B05D3/00 B05D5/00 B05D5/08 B05D5/10 B28B19/00 B28B23/00

B29C31/00 B29C33/12 B29C33/14 B29C45/14 B29C65/02

B29C65/40 B29C65/48 B29C65/52 B29C65/70 B29C70/68 B32B

B32B11/02 B32B15/04 B32B27/04 B32B27/14 B32B27/36 B32B37/02
B32B37/03 B32B37/10 B32B37/36 B32B37/48 B32B37/58 B32B37/60

B32B3/02 B32B3/10 B32B3/26 B32B33/00 B32B37/00 B32B37/02
B32B37/04 B32B37/05 B32B37/12 B32B37/16 B32B39/00 B32B5

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B32B5/03 B32B5/04 B32B5/16 B32B7/06 B32B7/12 B41M B41M3

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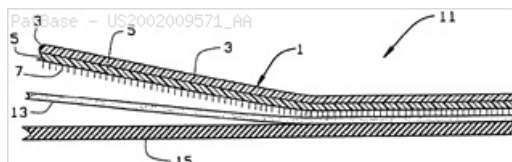
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D06Q D06Q1/14 (Advanced/Invention):

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B29C43/14 B29C51/00 B29K105/20 B29E7/00 B29E9/00 B32B27/

Base PDF Export - Page: 30 14/11/2019

Case PDF Export - Page: 30 14/11/2019



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International (IPC 1-7): B05B31/00 B05D1/14 B05D1/16 B05D1/36 B05D3/00 B05D5/00 B05D5/10 B29C31/00 B29C33/12 B29C33/14 B29C45/14 B29C65/40 B29C65/48 B29D22/00 B32B B32B1/08 B32B11/02 B32B15/04 B32B27/04 B32B27/14 B32B27/36 B32B3/02 B32B31/00 B32B31/12 B32B31/18 B32B31/20 B32B33/00 B32B5/00 B32B5/02 B32B5/16 B32B7/06 B32B7/12 B41M3/12 B41M5/00 B44C1/165 B44C1/17 B44C1/65 C08L31/04 C09J C09J201/00 C09J7/02 D04H11/00

CPC: B29B11/10 B29C41/04 B29C41/20 B29C45/16 B29C49/24 B29C67/246 B29C2049/2412 B29C2049/2429 B05D7/02 Y10S428/914 B32B5/16 B32B37/02 B32B2038/1891 B29C45/14065 B32B37/203 B32B2451/00 B29C2045/14114 B32B38/0004 Y10T156/1052 Y10T428/1352 Y10T428/1359 Y10T428/24628 Y10T428/24826 Y10T156/1054 Y10T156/108 B32B5/00 Y10T428/25 Y10T428/28 B05D1/16 B44C1/18 B32B37/025 B32B37/04 B32B2037/1223 B44C1/1712 B44C1/1716 B44C1/172 B44C1/1725 B41M3/12 B44C1/105 B44C1/16 B44C1/00 B32B3/08 B32B5/08 B29K2105/0011 Y10T428/23914 Y10T428/23929 Y10T428/23943 Y10T428/23993 Y10T428/2395 Y10T428/23979 Y10T442/2525 B29C33/68 B29C45/1418 B29C45/14827 B29C51/008 B29C51/145 B29C2791/001 B29C2791/006 B29C2791/007 B29K2105/0097 B29L2009/001 B29L2031/722 B44C1/10 B44C3/04 B29C45/14688 B29C45/14811 B29C2045/14721 B29K2713/00 B29K2715/006 B29K2995/002 B32B7/12 D04H11/00 D06P5/00 D06Q1/14

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US: 156/155 156/182 156/182S 156/228 156/230 156/235 156/238 156/240 156/241 156/247 156/250 156/251 156/267 156/272.2 156/277 156/277S 156/279 156/279S 156/72 156/72P 264/130 264/130P 264/135 264/239 264/241 264/243 264/247 264/247S 264/250 264/255 264/255S 264/257 264/257S 264/265 264/275 264/511P 264/511S 427/258 427/458 427/553 428/174 428/198 428/323 428/343 428/35.7 428/35.700S 428/35.9 428/35.900S 428/85 428/85P 428/85S 428/86 428/86P 428/88 428/88S 428/9 428/90 428/90P 428/90S 428/91 428/914 428/91S 428/95 428/97 442/123 442/123S 8/471

Family:

Publication number	Publication date	Application number	Application date
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US7632371 BB	20091215	US20070876524	20071022
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WO02058854 A1	20020801	WO2001US48615	20011212
WO0207959 A1	20020131	WO2001US23195	20010723
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WO05035235 A3	20051027	WO2004US33015	20041007

Priority:

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WO2001US48615	20011212	US20020366580P	20020321	US20020393362P	20020703
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US20020416098P	20021004	US20020422206P	20021029	US20020432952P	20021211
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US20030455541	20030604	US20030455575	20030604	US20030613981	20030703
WO2003US21302	20030703	WO2003US21299	20030703	WO2003US21074	20030703
US20030614399	20030703	US20030613982	20030703	US20030614340	20030703
US20030670091	20030923	US20030509834P	20031008	WO2004US33015	20041007
US20040961821	20041007	US20060823072P	20060821	US20070842397	20070821
US20070849840	20070904	US20070876524	20071022	US20080013996	20080114
US20090636421	20091211	US20100874784	20100902	US20120646381	20121005

Probable Assignee: HIGH VOLTAGE GRAPHICS INC

Assignee(s): (std): HIGH PRESSURE DRAFTING CO ; HIGH VOLTAGE GRAPHICS INC ; ABRAMS LOUIS B ; ABRAMS LOUIS BROWN

Assignee(s): FIBERLOK TECHNOLOGIES INC ; HIGH VOLTAGE GRAPHICS INC FORT COLLINS ; LOUIS B ABRAMS

Inventor(s): (std): ABRAMS LOUIS B ; LOUIS BROWN ABRAMS ; ABRAMS LOUIS ; BROWN ABRAMS LOUIS ; ABRAMS LOUIS BROWN ; LOUIS B ABRAMS

Inventor(s): ABRAMS LOUIS B FORT COLLINS

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; BLAKE DAWSON PATENT ATTORNEYS; ASHURST AUSTRALIA; BLAKE DAWSON; JOHNSON ERNEST PETER; GOODWIN MCKAY; PARLEE MCLAWS LLP; LICHTI PATENTANWAELTE; PETRUZZIELLO ALDO; PETRUZZIELLO ALDO ET AL; REED

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

33) Family number: 44985204 (US2010119738A)

© PatBase

Title: FOIL FOR PREVENTING FORGERY

Abstract: A forgery-preventing foil having a latent image and a total thickness of 20 micro m or less, containing at least one patterned optically anisotropic layer having two or more regions different in birefringence property, all of the regions in the same layer being formed of the same layer-forming composition.

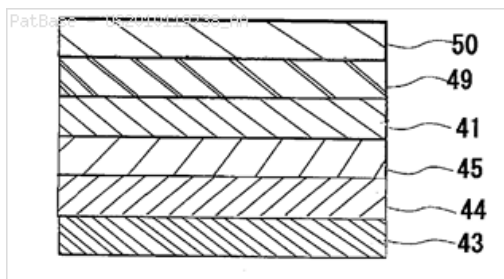
Classifications:

International (IPC 8-9): B05D3/00 B42D15/00 B42D15/10 B42D25/30 B42D25/328 B44F1/12 C09K19/20 C09K19/30 G02B5/30 G03H1/02 G03H1/18 G09F3/02 (Advanced/Invention); B05D3/00 B42D15/00 B42D15/10 B44F1/00 G02B5/30 G03H1/02 G03H1/18 G09F3/02 (Core/Invention)

CPC: B42D25/29 C09K19/2007 C09K19/3068 C09K2019/0448 G03H2001/0264 G03H2223/20 G03H2250/34 G03H2250/38 G03H2250/41 G03H2250/42 B42D25/455 B42D25/364 C09K19/00 B42D25/328 B42D25/391 G02B5/3016 G03H1/0011 G03H1/02 G03H1/0252 B42D2033/26 B42D2035/24

European: B42D15/00C C09K19/20A C09K19/30A5B G02B5/30L G03H1/02 G03H1/02L L42D33/26 L42D35/22 L42D35/24 L42D35/42 M09K19/04D2 S03H1/00A1 S03H1/02R2 S03H223/20 S03H250/34 S03H250/38 S03H250/41 S03H250/42

US: 427/7 427/7S 428/29 428/29P



Family:

Publication number	Publication date	Application number	Application date
■ CN101739893 A	20100616	CN200910221067	20091109
■ CN101739893 B	20140611	CN200910221067	20091109
■ EP2187271 A1	20100519	EP20090013947	20091106
■ JP2010113249 A2	20100520	JP20080287071	20081107
■ JP5543097 B2	20140709	JP20080287071	20081107
■ US2010119738 AA	20100513	US20090614690	20091109

Priority:

JP20080287071 20081107

Probable Assignee: FUJIFILM HOLDINGS CORP

Assignee(s): (std): FUJI PHOTO FILM CO LTD ; FUJIFILM CORP ; FUJIFILM HOLDINGS CORP

Inventor(s): (std): SUZUKI SATOMI ; AMIMORI ICHIRO ; KANEIWA HIDEKI ; SUZUKI TOSHIMI ; HIDEKI KANEIWA ; ICHIRO AMIMORI ; SATOMI SUZUKI

Agent(s): HOFFMANN EITL; YOUNG AND THOMPSON

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

34) Family number: 8748207 (US5761801A)

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Title: METHOD FOR MAKING A CONDUCTIVE FILM COMPOSITE

Abstract: A method for making a thin film printed board precursor containing a laminate of a controlled-flow dielectric thermosetting resin film layer and a heat and electrically conductive metal foil layer in direct adhesive bonding with a side of the resin film, optionally containing a supporting layer comprising one or more of fiber, fabric and thermoplastic polymer in contact with the other side of the resin layer, wherein the dielectric thermosetting resin layer has an unimpeded thickness that is at least equal to that of the foil layer bonded to it. The method comprises adhesively bonding an electrically conductive metal foil layer to a dielectric thermosetting resin film layer that has said unimpeded thickness. The laminate may be debossed through the metal foil layer and into the dielectric thermosetting resin film layer with a tool containing a raised electrical circuit pattern thereon. This step involves impressing the tool onto the foil layer surface thereby causing the foil layer to impress into the unimpeded thickness of the thermosetting resin layer and retaining one or more of a debossed and embossed pattern in the metal foil and the attached resin film that is complementary to the raised electrical circuit pattern on the tool. The debossed laminate is subjected to conditions that effect one of near-gelation, gelation and cure of the attached resin film and fixes the retained pattern in the metal foil layer and the resin layer of the laminate.

Classifications:

International (IPC 8-9): H05K3/04 H05K3/10 H05K3/38 (Advanced/Invention);

H05K3/10 H05K3/38 (Advanced/Non-invention);

H05K3/02 (Core/Invention);

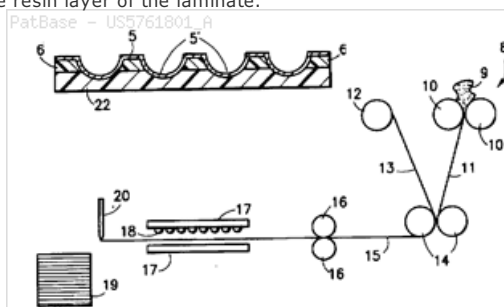
H05K3/10 H05K3/38 (Core/Non-invention)

International (IPC 1-7): H05K3/02

CPC: Y10T29/49153 Y10T29/49155 H05K3/045 H05K3/107 H05K3/386

European: H05K3/04D T05K3/10E T05K3/38D

US: 174/255 174/261 29/845 29/846 298/460



Family:

Publication number	Publication date	Application number	Application date
■ AU199661649 A1	19961230	AU19960061649	19960607

US5761801 A	19980609	US19950474439	19950607
WO9641508 A1	19961219	WO1996US09715	19960607

Priority:

US19950474439 19950607 WO1996US09715 19960607

Probable Assignee: HENKEL LOCTITE CORP

Assignee(s): (std): DEXTER CORP

Assignee(s): HENKEL LOCTITE CORP ; LOCTITE CORP

Inventor(s): (std): PAPALIA ROCCO ; GEBHARDT WILLIAM F

Inventor(s): ROCCO PAPALIA ; WILLIAM F GEBHARDT

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

35) Family number: 34918209 (US2007173551A)

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Title: CARPET WASTE COMPOSITE

Abstract: A composite material produced from carpet waste and a binding agent, in intimate association, which material includes 25 percent and 99 percent carpet waste and between 1 and 25 percent binding agent. A method for manufacturing the composite material is also disclosed.

Classifications:

International (ipc 8-9): B29B17/00 C08J11/00 A47G27/00
A47G27/02 B02C19/18 B05D5/00 B29B17/02 B29C43/00 B29C70/60
B29C71/00 B32B27/12 B32B3/00 B32B3/10 B32B3/30 C08G18/02
C08G18/42 C08G18/76 C08J11/04 C08J3/20 C08J5/04 C08J5/06
C08K3/26 C08K3/36 C08K7/02 C08L23/12 C08L75/04 C08L97/02
E04B1/94 E04C2/10 E04C2/24 E04C2/30 E04F13/16
E04F15/00 (Advanced/Invention);
B29K105/16 B29K105/26 B29K711/14 B29L31/00
B29L7/00 (Advanced/Non-invention);
C08G18/00 C08J11/00 C08L23/00 (Core/Invention)
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C08J5/04 C08L75/04 L29K105/16 L29K105/26 L29K711/14
L29L31/7322 L29L7/00C L32B272/00
US: 1/1 156/62.8 241/23 241/235 264/138 264/138S 264/237
264/237S 264/296 264/296S 427/256 427/256S 428/151 428/151P
428/156 428/156S 428/172 428/172P 428/195.1 428/195.100S
428/423.1 428/423.3 428/425.3 428/426 428/522 428/524 428/525
428/532 428/688 521/40.5 521/47 521/48 521/48P 521/49.8 524/13
524/13P 524/14 524/15 524/15S 524/500 524/500S 524/583
524/583S 524/599 524/599S 524/612 524/612S

PatBase - US2007173551_AA

Parent Application Publication Jul. 26, 2007 Sheet 1 of 3 US 2007/0173551 A1



Family:

Publication number	Publication date	Application number	Application date
CA2637244 AA	20080715	CA20072637244	20070111
CA2637244 C	20160823	CA20072637244	20070111
CA2933740 AA	20070726	CA20072933740	20070111
CA2933740 C	20180904	CA20072933740	20070111
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TW200738456 A	20071016	TW20070102165	20070119
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Priority:

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Probable Assignee: MATERIAL INNOVATIONS LLC

Assignee(s): (std): MANCOSH DOUGLAS ; MAT INNOVATIONS LLC ; MATERIAL INNOVATIONS LLC ; MURDOCK DAVID E ; PRZYBYLINSKI JAMES ; PRZYBYLINSKI JAMES P

Inventor(s): (std): PRZYBYLINSKI JAMES P ; PRZYBYLINSKI JAMES ; MURDOCK DAVID E ; MANCOSH DOUGLAS ; JAMES PRZYBYLINSKI ; DOUGLAS MANCOSH

Inventor(s): MURDOCK DAVID

Agent(s): SMART AND BIGGAR; FISH AND RICHARDSON PC; GOODWIN PROCTER LLP, PATENT ADMINISTRATOR; GOODWIN PROCTER LLP PATENT ADMINISTRATOR; GOODWIN PROCTER LLP

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

36) Family number: 23965209 (US2003205895A)

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Title: REFLECTIVE PRINTED ARTICLE AND METHOD OF MANUFACTURING SAME

Abstract: A reflective printed article includes a substrate having a top surface and a bottom surface with a graphic image printed thereon. A reflective or glossy ink layer is printed over the entire top surface of the substrate. A graphic image is printed over the reflective ink layer. The image may cover the entire portion of the reflective layer or only selected portions thereof. The graphic image includes hidden or latent images printed within the graphic image layers. An optional glossy layer of transparent ink may be printed over the graphic image. A textured pattern of lines is printed in sections over the optional glossy layer or graphical image, with each line in the section printed at the same angle or orientation, with the lines of adjacent sections printed at different angles in order to reflect light in different directions to create the illusion of depth, three-dimensionality, hidden images and motion.

Classifications:

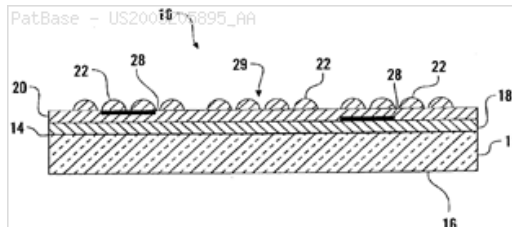
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International (IPC 1-7): B41M3/14 B42D15/00

CPC: H05K3/046 H05K2203/0522 H05K2203/0528 Y10T428/1486 Y10T428/24868 B44C1/14 G09F3/10 G09F13/16 Y10T428/14 Y10T428/1471 Y10T428/1495 Y10T428/24802 B44F1/10 B41M3/00 B41M3/005 B41M3/14 B41M3/148 B42D15/02 B44F1/045 B44F7/00 G02B27/2214 G09F19/12

European: B41M3/14T B42D15/02 B44C1/14 B44F1/04M B44F1/10 B44F7/00 G02B27/22L G09F13/16 G09F19/12 G09F3/10 H05K3/04E L41M3/00 L41M3/00H L41M3/14 T05K203/05A7 T05K203/05A9

US: 283/107 283/109 283/111 283/41 283/91 283/94 283/95 359/1 359/618 359/619 359/621 428/195 428/195.1 428/203 428/29 428/30 428/40.1 428/41.7 428/42.1 428/42.3 428/913.3



Family:

Publication number	Publication date	Application number	Application date
AU2001251023 AA	20021008	AU20010251023	20010327
DE60136927 D1	20090122	DE20016036927	20010327
EP1284870 A1	20030226	EP20010924364	20010327
EP1284870 A4	20051228	EP20010924364	20010327
EP1284870 B1	20081210	EP20010924364	20010327
US2003205895 AA	20031106	US20030239670	20030122
US2004140665 AA	20040722	US20030376130	20030228
US7048307 BA	20060523	US20030388782	20030314
US7290802 BA	20071106	US20030389438	20030314
US7290803 BB	20071106	US20030376130	20030228
US7497475 BA	20090303	US20050151124	20050613
WO02076759 A1	20021003	WO2001US09783	20010327

Priority:

WO2001US09783 20010327 US20030239670 20030122 US20030376130 20030228
US20030389438 20030314 US20030388782 20030314 US20050151124 20050613

Probable Assignee: SERIGRAPH INC

Assignee(s): (std): FAUL DANIEL C ; SCARBROUGH JOEL SCOTT ; SERIGRAPH INC

Assignee(s): WELLS FARGO BANK NATIONAL ASSOCIATION ; BMO HARRIS BANK NA

Inventor(s): (std): LASORSA LOUIS ; REINDL MICHAEL G ; TERLIZZI MICHAEL A ; FAUL DANIEL C ; SCARBROUGH JOEL SCOTT

Agent(s): LAWRENCE JOHN; ANDRUS SCEALES STARKE AND SAWALL LLP; NICHOLAS A; GODFREY AND KAHN SC

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

37) Family number: 32191239 (US2005183264A)

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Title: METHOD FOR ALIGNING CAPACITOR PLATES IN A SECURITY TAG AND A CAPACITOR FORMED THEREBY

Abstract: A circuit element the presence of the circuit element includes first and second capacitor plates disposed over the surface of the substrate in an aligned relationship with each other. The aligned relationship has manufacturing variations in the relative positioning of the first and second capacitor plates and a dielectric layer disposed between the first and second

capacitor plates. At least one of the first and second capacitor plates is formed substantially smaller relative to the other of the first and second capacitor plates. The at least one of the capacitor plates is disposed at a predetermined offset in at least one planar direction from an edge of the other of the first and second capacitor plates. The predetermined offset is selected according to the manufacturing variations to prevent variations in the value of capacitance of the capacitor due to the manufacturing variations.

Classifications:

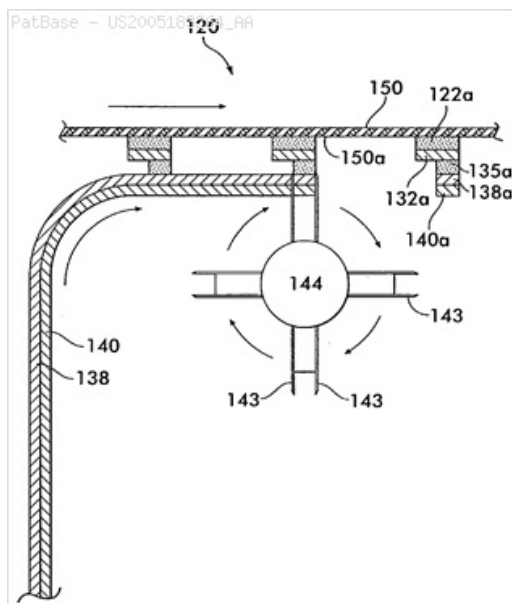
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International (IPC 1-7): B32B17/00 B32B31/00 B44C1/165 G01V15/00 G06F17/60 G06K19/077 G06K19/77 G08B13/14 G08B13/24 H01Q1/22 H04B1/38 H05K3/30

CPC: G06Q10/087 G06Q10/0875 G06Q30/04 B32B2041/04 G08B13/2437 G06K19/07749 B32B37/02 B32B37/1292 H05K2203/1545 Y10T29/49004 Y10T29/49117 Y10T29/49133 Y10T156/10 Y10T29/49155 Y10T29/4913 Y10T29/49156 Y10T156/1041 Y10T156/1052 Y10T156/1062 Y10T156/1077 Y10T156/108 Y10T156/1082 Y10T156/1089 Y10T156/1097 H01G4/005 G06K19/07718 G06K19/07786 H01G13/00 H01Q1/38 H01Q9/265 H01Q9/285 H05K3/041 B32B37/025 B32B2310/0843 B32B2519/02 G08B13/2414 G08B13/244 H05K1/162 H05K3/046 H05K2201/0355 H05K2201/09672 H05K2203/0522 H05K2203/0528 G06Q30/0283 Y10T156/1056 Y10T156/1057 Y10T156/1074 Y10T156/1075

European: B32B37/02 B32B37/02B G01V15/00 G06K19/077D G06K19/077T G06K19/077T7E G06Q10/087 G06Q10/0875 G06Q30/0283 G06Q30/04 G08B13/24B1G G08B13/24B3M1 H01G1/005 H01G13/00 H01G4/005 H01Q1/38 H01Q9/26B H01Q9/28B H05K3/04E L32B310/08B6 L32B37/02B L32B37/12D2 L32B519/02 T05K1/16C T05K201/03C1G T05K201/09C5B T05K203/05A7 T05K203/05A9 T05K203/15E T05K3/04B

US: 156/220 156/220S 156/230 156/230S 156/248 156/249 156/250 156/250S 156/252 156/253 156/256 156/256S 156/263 156/264 156/265 156/265S 156/267 156/267S 156/268 156/277 156/277S 156/278 156/297 156/297S 156/302 156/302S 156/60 156/60S 235/375 235/375S 235/376 235/376S 235/435 235/435P 235/488 235/492 29/593 29/593S 29/825 29/825S 29/832 29/834 29/834P 29/846 29/847 340/568.1 340/568.8 340/571 340/571S 340/572.1 340/572.100P 340/572.3 340/572.5 340/572.7 340/572.8 340/572.800S 705/28 705/29 705/29P 705/34 705/400 705/400S



Family:

Publication number	Publication date	Application number	Application date
AT467194 E	20100515	AT20050713625T	20050216
AU2005217971 AA	20050909	AU20050217971	20050216
AU2005217971 BB	20100218	AU20050217971	20050216
CA2557562 AA	20060823	CA20052557562	20050216
CA2557562 C	20111101	CA20052557562	20050216
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JP2007536606 T2	20071213	JP20060554172T	20050216
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KR20070033959 A	20070327	KR20067019654	20060922
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TW200539040 A	20051201	TW20050105258	20050222
TWI279729 B	20070421	TW20050105258	20050222
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US2005183817 AA	20050825	US20040996786	20041124
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US2005187837 AA	20050825	US20040998857	20041129
US2006175003 AA	20060810	US20060399551	20060406
US2006185790 AA	20060824	US20060398996	20060406
US2007012775 AA	20070118	US20060533172	20060919
US2007113966 AA	20070524	US20060532715	20060918
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WO05083627 A1	20050909	WO2005US04837	20050216
WO08036574 A2	20080327	WO2007US78531	20070914
WO08036574 A3	20080724	WO2007US78531	20070914

Priority:

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US20040996785 20041124 US20040996786 20041124 US20040996939 20041124

US20040998496 20041129 US20040998857 20041129 WO2005US04837 20050216
US20060398996 20060406 US20060399551 20060406 US20060532715 20060918
US20060533172 20060919

Probable Assignee: CHECKPOINT SYSTEMS INC

Assignee(s): (std): CHECKPOINT SYSTEMS INC ; CLARE THOMAS J ; COTE ANDRE ; ECKSTEIN ERIC

Assignee(s): WACHOVIA BANK NATIONAL ASSOCIATION ADMINISTRATIVE AGENT AS ; BANK OF AMERICA NA ; WACHOVIA BANK NATIONAL ASSOCIATION AS ADMINISTRATI ; WACHOVIA BANK NATIONAL ASSOCIATION ADMINISTRATIVE ; WELLS FARGO BANK

Inventor(s): (std): CLARE THOMAS ; ECKSTEIN ERIC COTE ANDRE CLARE ; ANDRE COTE ; ERIC ECKSTEIN ; THOMAS J CLARE ; CLARE THOMAS J ; COTE ANDRE ; ECKSTEIN ERIC

Inventor(s): ECKSTEIN ERIC COTE ANDRE CLARE THOMAS J

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; SPRUSON AND FERGUSON; GOWLING LAFLEUR HENDERSON LLP; MENGES ROLF; CAESAR RIVISE BERNSTEIN COHEN AND POKOTILOV LTD; LINGUITI FRANK M

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

38) Family number: 52533241 (US2012308789A)

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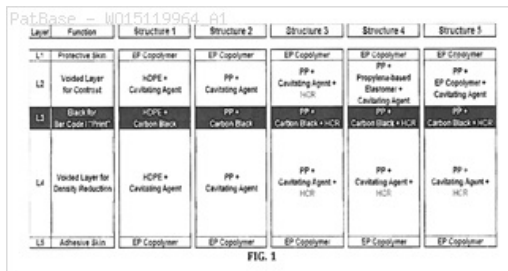
Title: MULTILAYER FILMS HAVING IMPROVED IMAGEABILITY,THEIR METHODS OF MANUFACTURE, AND ARTICLES MADE THEREFROM

Abstract: Imageable multilayer films are provided which include at least a core layer comprising a pigment or other colorant, a clear sealant layer, and an image-side tie layer intermediate the core layer and the sealant layer, where the tie layer comprises a cavitating agent. The sealant layer may include a first polymer component having a heat of fusion of less than 75 J/g and a second polymer component. The multilayer film may have a seal strength greater than about 200 g/2.54 cm for a seal formed on a crimp sealer at a temperature of at least 93.3 degrees centigrade The multilayer film may be biaxially oriented, an image may be effected on the film without the use of inks, and the film may be useful in packaging applications.

Classifications:

International (IPC 8-9): B05D3/00 B29C47/06 B29C59/02
B32B27/08 B32B27/20 B32B27/30 B32B27/32 B32B27/36 B32B7/12
B65D65/40 (Advanced/Invention);
B32B27/20 (Core/Invention)

CPC: B29K2995/0067 B32B27/32 B32B27/08 B32B27/20
B32B27/205 B32B2250/242 B32B2270/00 B32B2274/00
B32B2307/31 B32B2307/412 B32B2307/518 B29C59/026
B29C2795/007 B29K2023/06 B29K2023/12 Y10T428/24868
Y10T428/31935 Y10T428/31938 B32B2264/108 B32B2307/41
B32B2307/516 B32B2307/746 B32B2307/75 B32B7/12 B32B2255/10
B32B2307/4026 B32B2307/418 B32B2553/00 Y10T428/249953
Y10T428/249981 Y10T428/249993 B32B2255/26 B32B2250/03
B32B2250/04 B32B2250/05 B32B2250/24 B32B2250/40 B32B2307/40 B32B2307/414 B32B2307/514 B65D65/40
B29C48/0018 B29C48/022 B29C48/08 B29C48/10 B29C48/21 B29C48/22 B29C48/0023
US: 264/173.19 264/293 264/45.1 425/385 427/322 428/203 428/304.4 428/316.6 428/319.9 428/522 428/523



Family:

Publication number	Publication date	Application number	Application date
AU2015214333 AA	20160818	AU20150214333	20150203
AU2015214333 BB	20170223	AU20150214333	20150203
BR112016018245 A2	20180508	BR20161118245	20150203
CL2016001990 A1	20161216	CL20160001990	20160808
CN106163803 A	20161123	CN201580013591	20150203
CN106163803 B	20190528	CN201580013591	20150203
CO20160000741 A2	20161230	CO20160000741	20160808
EP3116714 A1	20170118	EP20150746699	20150203
EP3116714 A4	20171025	EP20150746699	20150203
IN201647026598 A	20160831	IN201647026598	20160804
MX2016010254 A1	20161205	MX20160010254	20150203
TH169491 A	20171019	TH20161004563	20150203
US2012308789 AA	20121206	US20120531026	20120622
US2014154498 AA	20140605	US20140176886	20140210
WO15119964 A1	20150813	WO2015US14298	20150203

Priority:

US20080079466P 20080710 US20110002886 20110217 US20120531026 20120622
US20140176886 20140210 WO2015US14298 20150203

Probable Assignee: JINDAL FILMS AMERICAS LLC

Assignee(s): (std): CRETEKOS GEORGE F ; JINDAL FILMS AMERICAS LLC ; LU PANG CHIA ; LIESTMAN DAVID A ; LOCKHART MARK W ; LOCKHART MARK ; SHEPPARD ROBERT

Assignee(s): JPF USA LLC ; JINDAL FILMS EUROPE VIRTON SPRL ; EXXONMOBIL OIL CORP ; FILMS AMERICAS LLC

Inventor(s): (std): ROBERT SHEPPARD ; MARK LOCKHART ; LOCKHART MARK W ; CRETEKOS GEORGE F ; LIESTMAN DAVID A ; LU PANG CHIA ; SHEPPARD ROBERT ; LOCKHART MARK

Inventor(s): ROBERT ; SHEPPARD ; MARK ; LOCKHART

Agent(s): PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; ESTUDIO TRANSGLOBO LTDA Y O HUGO RUBIO G Y O ALEX SEVERIN S; JOHAN SEBASTIAN GOMEZ VILLA; JOHNSON YVONNE CATHERINE; OSTERRIEDER ERIK J

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

39) Family number: 33379247 (WO05086721A2)

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Title: A TRANSPARENT TRANSACTION DEVICE

Abstract: The present invention relates to a process for producing an transparent or translucent transaction device having multiple features, such as a holographic foil, integrated circuit chip, RFID circuitry, silver magnetic stripe with text on the magnetic stripe, opacity gradient, an invisible optically recognizable compound, a translucent signature field such that the RFID circuitry and signature on back of the device is visible through the device body. The invisible optically recognizable compound is an infrared ink and/or film, which can be detected by a sensor found in an ATM or device manufacturing assembly line.

Classifications:

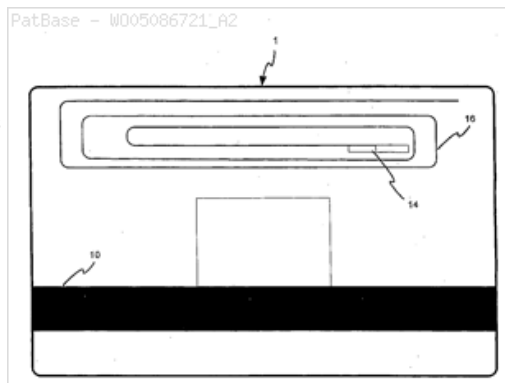
International (IPC 8-9): G02B26/10 G06K19/02 G06K19/07 G06K19/077 G06K19/08 G06K19/16 G06K7/00 G06Q20/00

G07C9/00 G07F7/08 H04L9/32 (Advanced/Invention);

G06K19/08 G07F7/08 H04L9/32 (Core/Invention)

CPC: G06K7/0008 G06K19/02 G06K19/0723 G06K19/077 G06K19/08 G06K19/16 G06Q20/04 G06Q20/14 G06Q20/327 G06Q20/3278 G07C9/00111 G07C9/00119 G07F7/086 G06Q20/00 H04L9/3231 H04L9/3273 H04L2209/56 H04L2209/805

European: G06K19/02 G06K19/077 G06K19/07T G06K19/08 G06K19/16 G06K7/00E G06Q20/00 G06Q20/04 G06Q20/14 G06Q20/327 G06Q20/3278 G07C9/00B10 G07C9/00B12 G07F7/08B H04L9/32

**Family:**

Publication number	Publication date	Application number	Application date
WO05086721 A2	20050922	WO2005US07200	20050304
WO05086721 A3	20060908	WO2005US07200	20050304

Priority:

US20040708548 20040310

Probable Assignee: AMERICAN EXPRESS TRAVEL RELATE

Assignee(s): (std): VANDER EYK BECKY ; MALNATI LEIGH ; MUELLER SUE ; NORCROSS ZARITA ; PEART LEE J ; SAUNDERS PETER D ; SKILLING BELMOND LISA ; WEBB LISA ; WILLIAMSON JOHN R ; BEENAU BLAYN W ; BONALLE DAVID S ; ISENBERG SUSAN E ; AMERICAN EXPRESS TRAVEL RELATE

Assignee(s): AMERICAN EXPRESS TRAVEL RELATED SERVICES CO ; AMERICAN EXPRESS TRAVEL RELATED SERVICES CO INC ; AMERICAN EXPRESS TRAVEL RELATED SERVICES COMPANY ; AMERICAN EXPRESS TRAVEL RELATED SERVICES COMPANY I ; AMERICAN EXPRESS TRAVEL RELATED SERVICES COMPANY INC

Inventor(s): (std): BEENAU BLAYN W ; BONALLE DAVID S ; VANDER EYK BECKY ; ISENBERG SUSAN E ; MALNATI LEIGH ; MUELLER SUE ; NORCROSS ZARITA ; PEART LEE J ; SAUNDERS PETER D ; SKILLING BELMOND LISA ; WEBB LISA ; WILLIAMSON JOHN R

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

40) Family number: 46982255 (US2012013831A)

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Title: PROCESS OF PREPARING AN ANISOTROPIC MULTILAYER USING PARTICLE BEAM ALIGNMENT

Abstract: The invention relates to a process of preparing a multilayer comprising two or more anisotropic layers with different optical axes by using a particle beam etching technique, to a multilayer obtained by said process, to the use of such a multilayer as optical compensator or retarder in optical and electrooptical devices, and to devices comprising such a multilayer.

Classifications:

International (IPC 8-9): B29D11/00 B32B37/00 C08J3/28 G02B5/30 G02F1/1335 G02F1/13363 G02F1/1337 (Advanced/Invention);

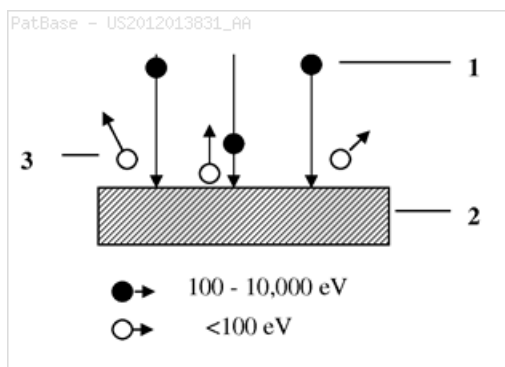
B32B37/00 G02F1/13 (Core/Invention);

C08J3/28 G02F1/13363 G02F1/1337 (Core/Non-invention)

CPC: G02B5/3016 B32B2305/55 B32B2307/42 B32B2310/0875 G02F1/13378 G02F1/1337 B32B37/00 G02F1/13363

European: G02B5/30L L32B305/55 L32B307/420 L32B310/08C S02F1/1337T

US: 216/24 216/24S 349/117 349/117P 349/193 349/193S

**Family:**

Publication number	Publication date	Application number	Application date
CN102326120 A	20120118	CN201080008958	20100311
EP2411864 A1	20120201	EP20100709414	20100311

JP2012521571 T2	20120913	JP20120501159T	20100311
KR20110132616 A	20111208	KR20117025214	20100311
TW201039026 A	20101101	TW20100109221	20100326
TWI493262 B	20150721	TW20100109221	20100326
US2012013831 AA	20120119	US20100258492	20100311
WO10108593 A1	20100930	WO2010EP01500	20100311

Priority:

EP20090004332 20090326 EP20090004886 20090402 WO2010EP01500 20100311
EP20100709414 20100311

Probable Assignee: MERCK PATENT GES MIT BESCHRANKTER HAFTUNG

Assignee(s): (std): KRAVCHUK RUSLAN ; MERCK PATENT GMBH ; PARRI OWAIN LLYR ; YAROSHCHUK OLEG

Assignee(s): MERCK PATENT GMBHDE ; MERCK PATENT GES MIT BESCHRAENKTER HAFTUNG ; MERCK PATENT GES MIT BESCHRANKTER HAFTUNG ; MERCK PATENT GESELLSCHAFT MIT BESCHRAENKTER HAFTUNG

Inventor(s): (std): PARRI OWAIN LLYR ; YAROSHCHUK OLEG ; KRAVCHUK RUSLAN ; OLEG YAROSHCHUK ; LLYR PARRI OWAIN ; RUSLAN KRAVCHUK

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

41) Family number: 43040266 (US2010277382A)

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Title: ANTENNA SHEET, TRANSPONDER, AND BOOKLET

Abstract: An antenna sheet is provided with a flexible substrate, and an antenna coil, which is connected to a terminal section of an external IC module having an IC chip and is arranged on the substrate. On the substrate, a storing section that stores at least a part of the IC module is formed.

Classifications:

International (IPC 8-9): B42D11/00 B42D15/10 G06K19/02 G06K19/07 G06K19/077 H01Q1/22 H01Q1/38 H01Q1/40 H01Q7/00 H05K1/16 (Advanced/Invention);

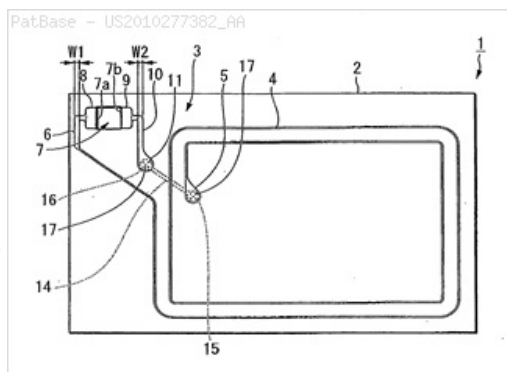
G06K19/07 G06K19/077 H01Q1/38 (Advanced/Non-invention); G06K19/07 G06K19/077 H01Q1/38 H01Q7/00 (Core/Invention)

International (IPC 1-7): G06K19/077

CPC: H01L2224/48227 H01L2924/01004 H01L2924/01057 H01L2924/01078 H01L2924/01079 H01Q1/2225 H01L2224/32225 H01L2224/73265 H01L24/73 H01L2924/14 H01Q1/38 H01Q7/00 G06K19/07749 G06K19/025 G06K19/077 G06K19/07745 H01L2224/45144 H01L2224/48091 H01L2924/01015 H01L2924/01019 H01L2924/01047 H01L2924/181 H01L2924/00014 H01L2924/00 H01L2924/00012

European: G06K19/02C G06K19/077T H01Q1/22C4 H01Q1/38 H01Q7/00 T01L224/48 T01L224/48091 T01L224/48227 T01L924/01004 T01L924/01057 T01L924/01078 T01L924/01079

US: 343/741 343/741P 343/866 343/867 343/868 361/762 361/762P



Family:

Publication number	Publication date	Application number	Application date
AU2008297839 AA	20090319	AU20080297839	20080912
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EP2256672 B1	20160413	EP20080872646	20081010
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EP2602747 A3	20140730	EP20130155292	20080912
EP2602747 B1	20160113	EP20130155292	20080912
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ES2563451 T3	20160315	ES20130155292T	20080912
ES2590339 T3	20161121	ES20080872646T	20081010
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IN05268DN2010 A	20110225	IN2010DN05268	20100721
IN284624 B	20170630	IN2010DN01916	20100318
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JP5287731 B1	20130911	JP20090554189T	20081010
JP5287731 B2	20130911	JP20090554189T	20081010
JP5370154 B1	20131218	JP20090532247T	20080912
JP5370154 B2	20131218	JP20090532247T	20080912
KR101154170 B1	20120614	KR20107018331	20081010
KR101163300 B1	20120705	KR20107006003	20080912
KR101237107 B1	20130225	KR20127006038	20080912
KR20100047320 A	20100507	KR20107006003	20080912
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MX2010008213 A1	20100930	MX20100008213	20081010
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PL2256672 T3	20161130	PL20080872646T	20081010
RU2010109058 A	20110920	RU20100109058	20080912
RU2010134567 A	20120327	RU20100134567	20081010
RU2467393 C2	20121120	RU20100134567	20081010
RU2471232 C2	20121227	RU20100109058	20080912
TW200937302 A	20090901	TW20080134957	20080912
TW200937303 A	20090901	TW20080139127	20081013
TWI379241 B	20121211	TW20080134957	20080912
TWI479425 B	20150401	TW20080139127	20081013
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US2011002107 AA	20110106	US20080735584	20081010
US8519905 BB	20130827	US20080733666	20080912
US9934459 BB	20180403	US20080735584	20081010
WO09035094 A1	20090319	WO2008JP66570	20080912
WO09104303 A1	20090827	WO2008JP68492	20081010

Priority:

JP20070239982 20070914	JP20080041134 20080222	JP20080187007 20080718
EP20080830775 20080912	EP20130155292 20080912	WO2008JP66570 20080912
JP20090532247 20080912	EP20080872646 20081010	WO2008JP68492 20081010
JP20090554189 20081010		

Probable Assignee: TOPPAN PRINTING CO LTD

Assignee(s): (std): MAEHIRA MAKOTO ; MIZUGUCHI YOSHIYUKI ; TANAKA JUNSUKE ; TOPPAN PRINTING CO LTD ; YAMAMOTO AKIHISA ; TOPPAN PRINTING KO LTD

Assignee(s): TOPPAN PRINTING KO ; TOPPAN PRINTING CO LTD5-1 TAITO 1-CHOMETAITO-KU110-0016TOKYOJP ; TOPPAN PRINTING CO

Inventor(s): (std): TANAKA JUNSUKE ; YAMAMOTO AKIHISA ; MAEHIRA MAKOTO ; MIZUGUCHI YOSHIYUKI ; TANAKA DZUNSUKE ; MAEKHIRA MAKOTO ; MIZUGUTI JOSIJUKI ; JAMAMOTO AKIKHISA ; AKIHISA YAMAMOTO ; YOSHIYUKI MIZUGUCHI ; JUNSUKE TANAKA ; MAKOTO MAEHIRA

Inventor(s): TANAKA JUNSUKEJP ; MIZUGUCHI YOSHIYUKIJP ; MAEHIRA MAKOTOJP ; YAMAMOTO AKIHISAJP ; TANAKA, Junsuke ; YAMAMOTO, Akihisa ; MAEHIRA, Makoto ; MIZUGUCHI, Yoshiyuki

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; GOUDREAU GAGE DUBUC; LAVERY DE BILLY LLP; MARKS AND CLERK LUXEMBOURG LLP; MARTIN PHILIP JOHN; GWILT JULIA LOUISE; RIZZO SERGIO; VALLEJO JUAN PEDRO; STAAS AND HALSEY LLP; SHIGA MASATAKE ET AL

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

42) Family number: 51634266 (US2012196061A)

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Title: MULTILAYER FILMS, THEIR METHODS OF PRODUCTION, AND ARTICLES MADE THEREFROM

Abstract: This invention relates to a film including (i) at least one sealing layer, including greater than 50.0 weight percent, based on the total weight of the sealing layer, of a modifier, the modifier including a copolymer of propylene derived units and one or more comonomers selected from the group consisting of C2 and C4 to C10 alpha-olefin derived units, wherein the comonomer content is in the range of about 2.0 to 25.0 weight percent; and (ii) at least one core layer, including a polymer having a propylene derived unit content of greater than 90 weight percent, based on the weight of the polymer; and wherein the film has a seal initiation temperature of 105 degrees centigrade or less; and wherein when a seal is formed, the sealed film has a hermeticity of 65 percent or more. The invention also relates to methods to produce such films, articles including such films, and the use of such films to form heat sealed articles.

Classifications:

International (IPC 8-9): B29C47/06 B32B1/00 B32B27/08 B32B27/32 (Advanced/Invention);

B29C47/00 B29C55/02 B29K23/00 (Advanced/Non-invention)

CPC: B32B27/32 B29C55/023 B29K2023/14 B32B27/08 B32B2439/06 B32B2439/70 B32B2439/80 B32B2605/00 B32B2605/003 Y10T428/1334 Y10T428/31913 B29C48/08 B29C48/21

European: L29C47/06P L29C55/02B L29K23/14

US: 264/173.19 264/173.190S 428/35.2 428/35.200P 428/516 428/516S

Family:

Publication number	Publication date	Application number	Application date
US2012196061 AA	20120802	US20110309670	20111202
US9643388 BB	20170509	US20110309670	20111202

Priority:

US20110437321P 20110128 US20110309670 20111202

Probable Assignee: EXXON MOBIL CORP

Assignee(s): (std): EXXON MOBIL CORP ; EXXONMOBIL CHEMICAL PATENTS INC ; WEISINGER DAVID R

Title: POLYOLEFIN FILM WITH HEAT-SEALABLE COATING AND METHOD OF COATING

Abstract: A heat sealable coated olefine polymer film is produced by subjecting uncoated film to a chemical or physical treatment resulting in oxidation of the film surface to improve the bonding properties of its surface, after which a coating of a heat-curable water-insoluble condensation product of melamine and formaldehyde, which has been prepared by reacting at least three moles of formaldehyde with each mole of melamine, and a monohydric alcohol, is applied to the film by solution coating and evaporation of the solvent, the film is then overcoated with an aqueous dispersion of a polymer or copolymer which enables the film to which it is applied to be heat sealed using standard heat sealing equipment which is then dried off on the film and heated to cure the condensation product so that it becomes adhesively bonded to the heat-sealable coating and to the base film. The oxidation of the film surface may be by treatment with chromic acid in sulphuric acid or with hot nitric acid; exposure to ozone e.g. at a temperature above 100 DEG C.; exposure to high voltage electric stress accompanied by corona discharge; exposure to ionizing radiation e.g. ultraviolet, X-, α -, β - or γ - radiation particularly at temperatures above 100 DEG C.; exposure to a flame; to give the film a water contact angle at 65 to 75 degrees. The monohydric alcohol may be an alkanol containing between 3 and 6 carbon atoms. The condensation product may be prepared by reacting the formaldehyde with the melamine in the presence of the monohydric alcohol, or by first reacting the melamine and formaldehyde to produce a water-soluble heat curable condensation product and then reacting the product with the monohydric alcohol. The condensation product may have a petroleum ether tolerance (defined) of at least 2. Before applying the heat sealable coating the thermosetting resin is partially but not completely cured. The thermosetting resin may be set in the presence of an acid catalyst. The thermosetting resin may contain a plasticizer. The sealable coating polymer may be a copolymer of vinylidene chloride and acrylonitrile, which may contain 80 to 95 percent by weight vinylidene chloride, polyvinyl acetate which may be partially hydrolysed, butadiene-acrylonitrile, -styrene, and/or -methyl methacrylate, methyl methacrylate-methacrylic acid, copolyesters of terephthalic acid and an other dicarboxylic acid e.g. sebacic acid, with a glycol, vinylidene chloride -vinyl chloride, -methyl, -butyl or -octyl acrylate, vinyl acetate -vinyl chloride, or -ethylene, and vinyl chloride-ethylene copolymers. The copolymer may be applied as an aqueous emulsion using as the emulsifying agent a cationic surface active agent, examples of which are given, thereby to confer antistatic properties on the film. The heat sealable coating dispersion may also contain additives other than cationic surface agents, examples of which are given. The olefine polymer may be polymers and copolymers of ethylene, α -olefines having at least 3 carbon atoms e.g. propylene, butene 1. The olefine polymer film may be oriented in one or both directions in the plane of the film, e.g. biaxially oriented with a substantially equal degree of orientation in each direction, and may be heat set either before or after the coating treatment.

Classifications:

International (IPC 8-9): B29C47/00 B29C65/02 C08J5/12 C08J7/04 C09D5/23 C09J7/02 (Advanced/Invention); B29C47/00 C08J7/00 (Core/Invention)

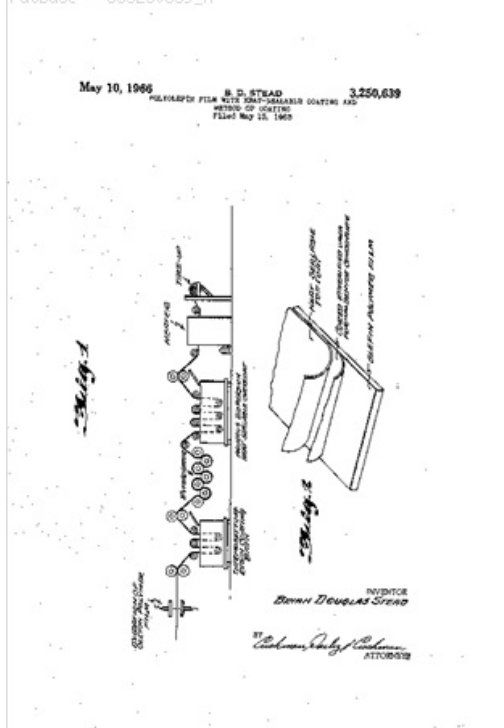
International (IPC 1-7): B05D7/04 B29C65/02 B29D9/00 B44D1/24 B44D5/06 C08F47/14 C08J5/12 C08J7/04 C09J7/02

CPC: C08J7/042 C08J2323/06 C08J2423/12 B29C65/02 B29C66/1122 B29C66/45 B29C66/71 B29C66/73753 B29C66/7392 B29C66/7394 C08J5/124 C08J7/047 C08J2323/02 C08J2323/12 C08J2427/08 C09J7/22 C09J7/35 Y10T428/2826 Y10T428/31862 C09J7/02 B29C48/08

European: 29TM3+8 B29C47/00F B29C65/02 B29C65/02G C08J5/12H C08J7/04 C09J7/02K2 L29C47/00J5 M08J323/02

US: 427/208.2 427/536 428/349 428/502

PatBase - US3250639_A

**Family:**

Publication number	Publication date	Application number	Application date
AT239546 B	19650412	AT19620001058	19620208
AU1375162 A1	19630801	AU19620013751	19620130
BE613561 A	19620806	BE19620613561	19620206
CH437773 A	19670615	CH19620001521	19620208
DE1494130 A1	19691030	DE19621494130	19620131
DE1794311 A1	19731018	DE19621794311	19620131
DE1794311 B2	19741003	DE19621794311	19620131
DE1794312 A1	19731025	DE19621794312	19620131
DE1794312 B2	19741003	DE19621794312	19620131
DE1794312 C3	19750528	DE19621794312	19620131
ES274427 A1	19620601	ES19620274427	19620208
ES306270 A2	19650501	ES19640306270	19641120
FI40578 B	19681130	FI19620000262	19620208
FR1320230 A	19630308	FR19620887421	19620208
GB1042897 A	19660914	GB19630045797	19631120
GB932652 A	19630731	GB19610004690	19610208
NL274526 A	00000000		00000000
SE314928 B	19690915	SE19620001186	19620202

US3250639 A 19660510 US19650455590 19650513

Priority:

GB19610004690 19610208 GB19610008825 19610310 GB19630045797 19631120

Probable Assignee: ICI LTD

Assignee(s): (std): ICI LTD

Assignee(s): IMP CHEMICAL IND LTD ; IMPERIAL CHEMICAL IND LTD ; IMPERIAL CHEMICAL INDUSTRIES LIMITED ; IMPERIAL CHEMICAL INDUSTRIES LTD ; IMPERIAL CHEMICAL INDUSTRIES LTD LONDON

Inventor(s): (std): STEAD BRIAN DOUGLAS ; STEAD B ; DOUGLAS STEAD BRIAN ; BRIAN DOUGLAS STEAD

Inventor(s): STEAD BRIAN DOUGLAS ST ALBANS GROSSBRITANNIEN

44) Family number: 8748274 (US5731086A)

© PatBase

Title: DEBOSSABLE FILMS

Abstract: A thin thermosetting resin film that is amenable to being subjected to a debossing procedure that debosses a grooved printed circuit pattern thereon with minimal loss of debossment precision of the grooved pattern, which pattern and the grooving can be cured to produce a thermoset resin film that can be employed for eventually generating a printed board. The thermosetting resin film has the following qualities: a) it is designed for shaping by processes such as stamping, compression molding, transfer molding, injection molding, and the like without the need for constraining flow at the edges of the resin film; b) the resin is nonconductive, i.e., the resin can be used as a dielectric substrate; c) it is a thin film that is sufficiently uniform in thickness in order to provide consistent heat shaping capability across the breadth of the film, and the thickness should be sufficient to accept the shape imposed by the shaping process; d) the film possesses low flow over a broad temperature range so that it does not flow uncontrollably while undergoing cure conditions, and when placed under pressure, only the portions that are superimposed over a groove or cavity in the case of a female mold, or over a protuberance in the case of a male mold, will be caused to flow because of pressure imposed on the film; and e) the film gels or achieves properties similar to a state of gelation, over conditions leading to cure, that satisfy commercial conditions.

Classifications:

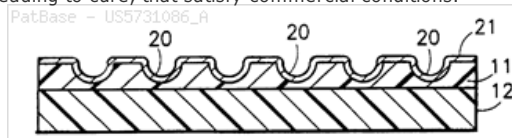
International (IPC 8-9): B29C43/02 B29C59/02 B32B15/08 G03F7/16 H05K1/03 H05K3/04 H05K3/38 (Advanced/Invention); B29C59/02 B32B15/04 B32B15/08 B32B17/00 B32B9/04 H05K1/03 H05K3/38 (Advanced/Non-invention); B29C43/02 B29C59/02 B32B15/08 H05K1/03 H05K3/02 (Core/Invention); H05K3/38 (Core/Non-invention)

International (IPC 1-7): B21F21/00 B22F5/00 B29C59/02 B32B15/04 B32B15/08 B32B17/00 B32B31/00 B32B9/04 G03F7/16 H05K1/03 H05K3/38

CPC: Y10T428/24942 Y10T428/2495 B29C43/021 B29C2043/025 B29K2101/10 H05K3/386 Y10T428/31504 Y10T428/31507 Y10T428/31678 Y10T428/31786 Y10T428/31935 B32B15/082 B32B15/092 B32B15/20 B32B2307/708 B32B2311/12 B32B2333/04 B32B2363/00 B32B2457/08 B32B15/08 H05K3/045

European: B29C43/02B B32B15/08 H05K3/04D L29C43/02B2B L29K101/10 T05K3/38D

US: 428/212 428/213 428/411.1 428/412 428/457 428/480 428/522



Family:

Publication number	Publication date	Application number	Application date
AU199661677 A1	19961230	AU19960061677	19960607
AU697590 B2	19981008	AU19960061677	19960607
CA2223544 AA	19971203	CA19962223544	19960607
CN1192717 A	19980909	CN19961096154	19960607
EA000986 B1	20000828	EA19980000045	19960607
EA199800045 A1	19980625	EA19980000045	19960607
EP0842045 A1	19980520	EP19960919307	19960607
EP0842045 A4	19991110	EP19960919307	19960607
IL122491 A0	19981030	IL19970122491	19971207
IL122491 A1	20000928	IL19970122491	19971207
JP11507601 T2	19990706	JP19970502041T	19960607
KR19990022579 A	19990325	KR19970709060	19960607
MX9709925 A1	19980830	MX19970009925	19971205
NO975676 A	19980206	NO19970005676	19971205
NO975676 A0	19971205	NO19970005676	19971205
NO975676 L	19980206	NO19970005676	19971205
NZ310811 A	19990128	NZ19960310811	19960607
US5731086 A	19980324	US19950488469	19950607
WO9640509 A1	19961219	WO1996US09838	19960607

Priority:

US19950488469 19950607 WO1996US09838 19960607

Probable Assignee: LOCTITE CORP

Assignee(s): (std): DEXTER CORP

Assignee(s): GEBHARDT WILLIAM F ; LOCTITE CORP ; PAPALIA ROCCO

Inventor(s): (std): PAPALIA ROCCO ; GEBHARDT WILLIAM F

Inventor(s): ROCCO PAPALIA ; WILLIAM F GEBHARDT

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; MCCARTHY TETRAULT LLP; REINHOLD COHN AND PARTNERS

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

45) Family number: 20640285 (US5928748A)

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Title: LAMINATED PAGE AND METHOD FOR MAKING SAME

Abstract: A laminated page having a carrier sheet; two barrier plies, at least one of which is laminated to the carrier sheet; and sample material enclosed between the two barrier plies. The present invention also relates to a method of making the laminated page, including a mass manufacturing method in a single pass on a printing press.

Classifications:

International (IPC 8-9): A45D40/00 B31F1/00 B32B23/02 B32B3/04 B32B3/06 B32B3/26 B32B5/16 B65D65/28 G09F5/04 (Advanced/Invention);

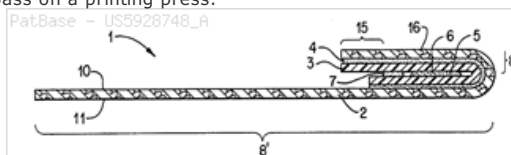
A45D40/00 B31F1/00 B32B23/00 B32B3/04 B32B3/06 B32B3/26 B32B5/16 B65D65/22 G09F5/00 (Core/Invention)

International (IPC 1-7): A45D40/00 A61L9/00 B31F1/00 B32B23/02 B32B3/04 B32B3/06 B32B3/26 B32B31/00 B32B5/16 B42D1/00 B65B11/08 B65B9/06 B65D65/28 B65D65/40

CPC: Y10S428/905 B42P2221/08 G09F5/04 Y10T428/14 Y10T428/1405 Y10T428/149 Y10T428/1495 Y10T428/15 Y10T428/24231 Y10T428/24793 B32B7/06 B32B2307/412 B32B2307/748 B32B3/04 A45D40/0087

European: A45D40/00S B32B3/04 G09F5/04 L42P221/08

US: 239/34 239/53 239/54 239/60 428/126 428/194 428/40.1 428/40.2 428/401 428/402 428/42.2 428/42.3 428/422 428/423 428/43 428/905 53/455 53/460 53/461 534/610



Family:

Publication number	Publication date	Application number	Application date
AT263673 E	20040415	AT19980906050T	19980130
AU199861381 A1	19980825	AU19980061381	19980130
CA2279364 AA	19990730	CA19982279364	19980130
CA2279364 C	20061121	CA19982279364	19980130
DE69823043 D1	20040513	DE19986023043	19980130
DE69823043 D1	20040513	DE19986023043T	19980130
DE69823043 T2	20050331	DE19986023043T	19980130
EP1012061 A1	20000628	EP19980906050	19980130
EP1012061 A4	20010808	EP19980906050	19980130
EP1012061 B1	20040407	EP19980906050	19980130
US5928748 A	19990727	US19970791875	19970131
US6125614 A	20001003	US19980209816	19981211
WO9833721 A1	19980806	WO1998US01773	19980130

Priority:

US19970791875 19970131 WO1998US01773 19980130 US19980209816 19981211

Probable Assignee: AKI INC

Assignee(s): (std): ARCADE INC ; AKI INC

Assignee(s): AKI INC NEW YORK ; ARCADE MARKETING INC ; BROWN HUBERT F ; CREDIT SUISSE FIRST BOSTON AS ADMINISTRATIVE AGEN ; HELLER FINANCIAL INC ; CREDIT SUISSE ADMINISTRATIVE AGENT AG AS ; JOSTENS INC ; CREDIT SUISSE FIRST BOSTON ADMINISTRATIVE AGEN AS ; HELLER FINANCIAL INC AGENT AS ; JONES GORDON W ; FELDMAN LYUDMILA ; CREDIT SUISSE CAYMAN ISLANDS BRANCH COLLATERAL AGENT AG AS ; GOLDMAN SACHS BANK USA COLLATERAL AGENT AS ; LEHIGH PRESS INC ; VISANT (F K A JOSTENS IH CORP) CORP ; VISANT SECONDARY HOLDINGS CORP F K A JOSTENS SECO ; VISUAL SYSTEMS INC ; VISANT F K A JOSTENS IH CORP CORP ; VISANT SECONDARY HOLDINGS CORP F K A JOSTENS SECON ; VISANT SECONDARY HOLDINGS CORP (F K A JOSTENS SECONDARY HOLDINGS CORP) ; VISANT SECONDARY HOLDINGS CORP F K A JOSTENS SECONDARY HOLDINGS CORP

Inventor(s): (std): JONES GORDON W ; BROWN HUBERT F ; FELDMAN LYUDMILA ; BROWN F ; JONES W

Inventor(s): HUBERT F BROWN ; GORDON W JONES ; LYUDMILA FELDMAN

Agent(s): OSLER HOSKIN AND HARCOURT LLP

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

46) Family number: 32383300 (US2005242471A)

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Title: METHODS FOR CONTINUOUSLY PRODUCING SHAPED ARTICLES

Abstract: Improved processes for forming shaped articles comprise extruding a composite comprising a polymer and at least one additive, and shaping the composite to form an article having a desired shape. Generally, the extruding and shaping steps are performed on a single process line, which allows the shaped articles to be produced in a continuous process. Due to the continuous process design, shaped articles made by the improved process can be produced in large quantities at a low cost per article. In some embodiments, a shaping station can be employed to shape the extruded composite. The shaping station can comprise a laser machining apparatus, a hot stamping apparatus, rollers having a predetermined pattern, or combinations thereof.

Classifications:

International (IPC 8-9): B23K26/06 B23K26/08 B23K26/36 H01S3/00 (Advanced/Invention);

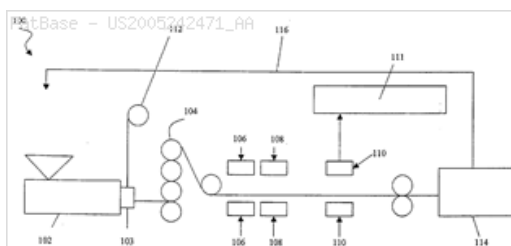
B23K26/00 B23K26/06 B23K26/08 H01S3/00 (Core/Invention)

International (IPC 1-7): B23K26/36 H01M8/02 H01S3/00

CPC: B23K26/066 B23K26/0846

European: B23K26/06C7 B23K26/08E2B

US: 264/129 264/129S 264/400 264/400P 264/485 264/485S 264/488 264/488S 264/494 264/494S



Family:

Publication number	Publication date	Application number	Application date
TW200603476 A	20060116	TW20050113844	20050429
US2005242471 AA	20051103	US20040836634	20040430
WO05110664 A2	20051124	WO2005US14575	20050427

WO05110664 A3	20060713	WO2005US14575	20050427
WO05110664 B1	20061116	WO2005US14575	20050427

Priority:

US20040836634 20040430

Probable Assignee: ENTEGRIS INC

Assignee(s): (std): BHATT SANJIV M ; ENTEGRIS INC ; EXTRAND CHARLES W

Inventor(s): (std): EXTRAND CHARLES W ; BHATT SANJIV M

Inventor(s): EXTRAND CHARLES ; BHATT SANJIV

Agent(s): PATTERSON THUENTE SKAAR AND CHRISTENSEN PA

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

47) Family number: 65164302 (US2018291243A)

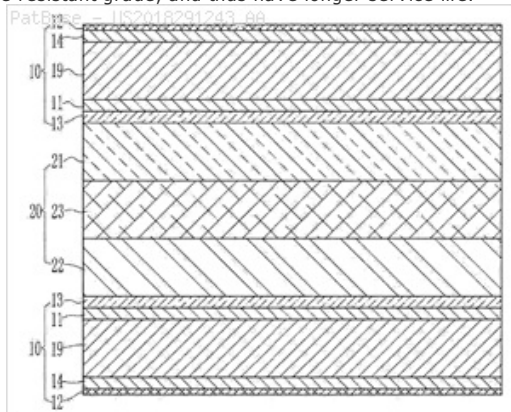
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Title: A CARD PROTECTIVE FILM, A PRODUCTION METHOD AND A PAYMENT CARD

Abstract: The present disclosure relates to a card protective film, a production method thereof and a payment card, wherein the card protective film comprises a core layer of a biaxially oriented polyester film, a first connection layer and a printed bonding layer connected to a printed layer of a card substrate, as well as a surface processing layer with function(s) of thermal laminating release, thermal jointing and/or hot stamping; the printed bonding layer is connected to one side of the core layer through the first connection layer, and the surface processing layer is connected to the other side of the core layer. The card protective film can meet the technical performance requirements of the surface tension required by the surface processing of the payment card and also can meet the technical performance requirements of the release and the processing temperature required by the surface processing when the card is being laminated, and can provide better protection for the payment card or other cards, and the payment card or other cards made therefrom have higher transparency, higher surface and overall strength, higher temperature resistant grade, and thus have longer service life.

Classifications:

International (IPC 8-9): B32B27/08 B32B27/36 B32B37/15 B32B38/00 C09J175/04 C09J7/02 C09J7/25 G06K19/077 (Advanced/Invention)
CPC: C09J2205/114 C09J2423/04 G06K19/07722 C09J7/255 C09J7/29 C09J2431/00 C09J2433/00 B32B37/153 B32B2425/00 B32B27/08 B32B27/36 C09J2467/006 B32B38/145 C09J175/04 C09J2475/00 C08G18/3206 C08G18/348 C08G18/4825 C08G18/7621 C08G2170/80 C09J175/08
US: 1/1 428/195.1



Family:

Publication number	Publication date	Application number	Application date
■ CN106497443 A	20170315	CN201610642164	20160808
■ US2018291243 AA	20181011	US20170572280	20170808
■ WO18028571 A1	20180215	WO2017CN096448	20170808

Priority:

CN201610642164 20160808 WO2017CN096448 20170808

Probable Assignee: SHENZHEN E SUN ELECTRONICS CO LTD

Assignee(s): (std): SHENZHEN E SUN ELECTRONICS CO LTD ; TIANJIN BOYUAN NEW MAT CO LTD

Assignee(s): TIANJIN BOYUAN NEW MATERIALS CO LTD ; TIANJIN BOYUAN NEW MATERIALS CO ; SHENZHEN ELECTRONICS CO LTD ONE AS ; SHENZHEN E SUN ELECTRONICS CO

Inventor(s): (std): YANG TIANZHI

Agent(s): BEYOND ATTORNEYS AT LAW

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

48) Family number: 54953306 (US2015298448A)

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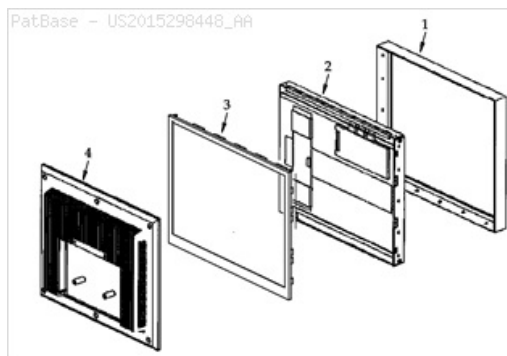
Title: METHOD FOR MANUFACTURING INTERMDIATE CABINET OF DISPLAY

Abstract: The method for manufacturing an intermediate cabinet of a display according to one embodiment of the present invention includes a molded plastic body extruding process, a film laminating and sizing process, a cooling process, a drawing process, a shearing process and a heat-bending process so that a thickness and width of the intermediate cabinet of the display can become thin, the intermediate cabinet can be produced by a bending process without manufacturing separately a mould having a dimension corresponding to a dimension of the display even though a dimension of the display is variously modified, to reduce a production time and cost and various metallic colors can be freely realized.

Classifications:

International (IPC 8-9): B32B37/30 G02F1/1333 G09F9/35 (Advanced/Invention)

CPC: B32B37/30 G02F1/133308 G02F2001/133317 G02F1/1333
B29C48/0018 B29C48/0019 B29C48/0021 B29C48/07
US: 156/196



Family:

Publication number	Publication date	Application number	Application date
EP2881781 A1	20150610	EP20130825307	20130624
EP2881781 A4	20160525	EP20130825307	20130624
KR101317773 B1	20131015	KR20120083610	20120731
US2015298448 AA	20151022	US20130418030	20130624
WO14021555 A1	20140206	WO2013KR05564	20130624

Priority:

KR20120083610 20120731 WO2013KR05564 20130624

Probable Assignee: SKW CO LTD

Assignee(s): (std): SKW CO LTD

Assignee(s): SKW CO

Inventor(s): (std): JUNG WON KI

Agent(s): VON KREISLER SELTING WERNER PARTNERSCHAFT VON PATENTANWALTEN U RECHTSANWALTEN
MBB; TAESAN PATENT AND LAW FIRM

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

49) Family number: 43272323 (US2010253063A)

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Title: INSTANT WIN LOTTERY TICKET WITH FULL COLOUR SECURITY AREA AND METHOD OF MANUFACTURE

Abstract: A scratch-off instant game card and method of manufacture provides a substrate having a secure area with full colour variable images printed on the secure area comprising information which is variable between cards. The image is printed using a digital printing method capable of printing variable images including the liquid electro-photographic printing method, the toner electro-photographic printing method, the continuous inkjet printing method and the drop on demand inkjet printing method. The substrate for the security area comprises sufficient absorptive qualities to enable a rapid and high level of adhesion of the image to the security area and being sufficiently impenetrable to prevent determination of the contents of the image through the substrate. Two varnish layers and two scratch-off layers cover the graphical image.

Classifications:

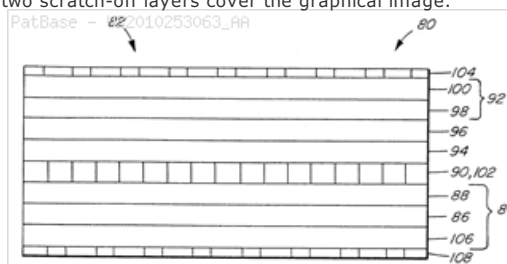
International (IPC 8-9): A63F3/06 B32B29/00 B41F33/00 B42D15/00
G03G13/10 (Advanced/Invention);

A63F3/06 B32B29/00 B42D15/00 G03G13/06 (Core/Invention);
B42D (Subclass/Invention)

CPC: A63F3/0655 A63F3/0665 A63F2003/067 A63F2003/0675
B41M3/005 B42D15/025 G03G15/36

European: A63F3/06F2 B41M3/00H B42D15/02D G03G15/36
K63F3/06F1 K63F3/06F2C K63F3/06F2M

US: 101/483 101/483S 283/100 283/100P



Family:

Publication number	Publication date	Application number	Application date
AU2008323570 AA	20090522	AU20080323570	20081113
CA2709829 AA	20090522	CA20082709829	20081113
EP2214915 A1	20100811	EP20080849087	20081113
IL205701 A0	20101130	IL20080205701	20081113
US2010253063 AA	20101007	US20080742620	20081113
WO09062297 A1	20090522	WO2008CA01992	20081113

Priority:

US20070996323P 20071113 US20080742620 20081113 WO2008CA01992 20081113

Probable Assignee: BLACK AND WHITE PAPER MFG AB

Assignee(s): (std): AAPO SKOGSTER ; BLACK AND WHITE PAPER MFG AB ; SKOGSTER AAPO MAURI KUSTAA

Inventor(s): (std): SKOGSTER AAPO MAURI KUSTAA

Inventor(s): AAPO MAURI KUSTAA SKOGSTER ; AAPO SKOGSTER

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; HOFFMANN DRAGSTED; KLARQUIST SPARKMAN LLP; REGEHR
HERBERT B ET AL

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

50) Family number: 44044337 (WO09142998A1)

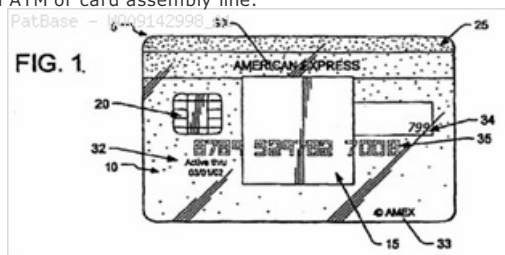
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Title: TRANSACTION CARD

Abstract: The present invention relates to a process for producing a transparent or translucent transaction card having multiple features. An optically recognizable compound may be associated with a portion of the card for blocking infrared radiation and may comprise an infrared ink having nanocrystalline indium tin oxide particles. Moreover, a portion of the transaction card may include a second optically recognizable compound disposed thereon. The second optically recognizable compound may comprise an infrared phthalocyanine dye, an infrared phosphor, and a quantum dot energy transfer compound. The infrared ink may be detected by a sensor found in an ATM or card assembly line.

Classifications:**International (IPC 8-9):** G06K7/00 (Advanced/Invention);

G06K7/00 (Core/Invention)

CPC: B42D25/00 B42D25/382 B41M3/14 B42D25/351 B42D2033/04
B42D2033/20 B42D2033/30**European:** B41M3/14 B42D15/10 L42D31/04 L42D33/20 L42D35/38**Family:**

Publication number	Publication date	Application number	Application date
WO09142998 A1	20091126	WO2009US44075	20090515

Priority:

US20080124937 20080521

Probable Assignee: AMERICAN EXPRESS TRAVEL RELATE**Assignee(s):** (std): AMERICAN EXPRESS TRAVEL RELATE ; FAENZA WILLIAM J**Assignee(s):** AMERICAN EXPRESS TRAVEL RELATED SERVICES COMPANY INC ; AMERICAN EXPRESS TRAVEL
RELATED SERVICES COMPANYINC**Inventor(s):** (std): FAENZA WILLIAM J**Agent(s):** SOBELMAN HOWARD

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