

1) Family number: 29085216 (US2003178130A)

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Title: METHOD FOR PRODUCING ORGANICALLY DEVELOPABLE, PHOTOPOLYMERIZABLE FLEXOGRAPHIC PRINTING ELEMENTS ON FLEXIBLE METALLIC SUPPORTS

Abstract: The invention relates to a method for producing organically developable, photopolymerizable flexographic printing elements on flexible metallic supports by: coating a flexible metallic support with a tack-free adhesive lacquer, which is resistant to swelling and which is insoluble in printing inks and in organic developers; applying an elastomeric photopolymerizable layer to a covering film, and; laminating the photopolymerizable layer onto the metallic support coated with the adhesive lacquer. The invention also relates to a photopolymerizable flexographic printing element comprised of a photopolymerizable layer that is applied to a flexible metallic support by means of a tack-free adhesive layer, which is resistant to swelling and which is insoluble in printing inks and in organic developers.

Classifications:

International (IPC 8-9): B29C47/00 B32B15/04 B32B31/02 B32B37/00 B32B37/16 B41N1/06 G03C5/18 G03C7/26 G03F7/00 G03F7/11 (Advanced/Invention); B41N3/03 (Advanced/Non-invention); B32B15/00 B32B15/04 B32B37/00 B41N1/00 G03C5/00 G03C5/18 G03C7/00 G03C7/26 G03F7/00 G03F7/11 (Core/Invention); B41N3/03 (Core/Non-invention)

International (IPC 1-7): B32B31/00 B41C1/00 B41C1/18 B41N1/06 B41N1/12 G03F7/00 G03F7/11

CPC: Y10T428/31678 B41N1/06 B41N3/03 G03F7/11

European: B41N1/06 G03F7/11 L41N3/03

US: 156/231 156/241 156/244.11 156/247 156/307.5 156/308.2 428/457 430/269 430/300 430/302

Family:

Publication number	Publication date	Application number	Application date
AU2001289804 AA	20020304	AU20010289804	20010816
AU200189804 A1	20020304	AU20010089804	20010816
AU200189804 A5	20020304	AU20010089804	20010816
DE10040929 A1	20020228	DE20001040929	20000818
DE50115668 D1	20101202	DE20015015668	20010816
EP1311909 A1	20030521	EP20010969594	20010816
EP1311909 B1	20101020	EP20010969594	20010816
JP2004507778 T2	20040311	JP20020521652T	20010816
JP4799802 B2	20111026	JP20020521652T	20010816
US2003178130 AA	20030925	US20030343927	20030206
US2006118231 AA	20060608	US20060332240	20060117
US7033724 BB	20060425	US20030343927	20030206
US8545661 BB	20131001	US20060332240	20060117
WO0217020 A1	20020228	WO2001EP09435	20010816

Priority:

DE20001040929 20000818 DE20015015668 20010816 WO2001EP09435 20010816
US20030343927 20030206 US20060332240 20060117

Probable Assignee: XSYS PRINT SOLUTIONS DEUTSCHLAND GMBH

Assignee(s): (std): BASF DRUCKSYSTEME GMBH ; KNOELL ROLF ; FLINT GROUP GERMANY GMBH ; TELSER THOMAS ; MENN HANS ; KNOLL ROLF ; XSYS PRINT SOLUTIONS DEUTSCHLAND GMBH ; BASF AG

Assignee(s): BASF AKTIENGESSELLSCHAFT

Inventor(s): (std): KNOELL ROLF ; KNOLL ROLF ; MENN HANS ; TELSER THOMAS

Inventor(s): THOMAS TELSER ; HANS MENN ; ROLF KNOLL

Agent(s): ISENBRUCK GUENTER; NOVAK DRUCE DELUCA AND QUIGG LLP; NOVAK BRUCE DELUCA AND QUIGG LLP; NOVAK DRUCE CONNOLLY BOVE AND QUIGG 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 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

2) Family number: 42386831 (EP1854642A2)

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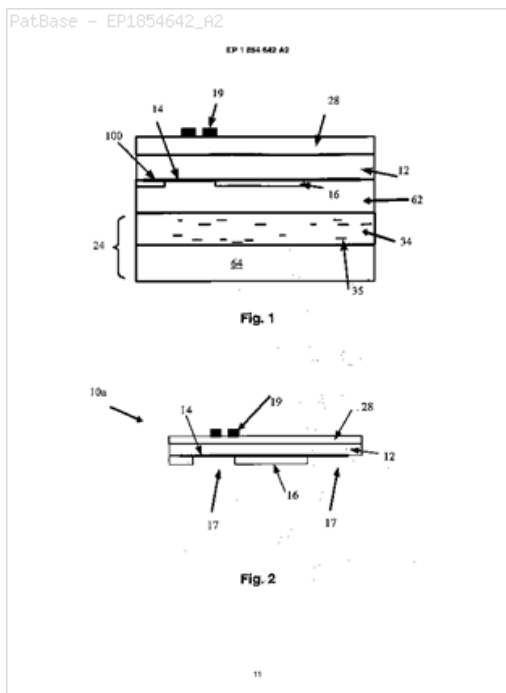
Title: A SECURITY DEVICE FORMED BY A HOLOGRAM AND A COLOR SHIFTING INK

Abstract: A method of forming a label on an object (24) is provided, comprising the steps of coating a surface of the object (64) with optically variable ink, and bonding a patterned structure to the object (24) with a light transmissive adhesive over the optically variable ink. The patterned structure allows light to propagate therethrough, and may be a diffractive structure comprising one of: a semi transparent reflective layer, a high refraction index layer, and a patterned reflective coating. In one embodiment a hologram is hot stamped to a banknote or paper document printed with a color-shifting ink.

Classifications:

International (IPC 8-9): G03H1/08 B41M3/14 B42D15/00 B42D15/10 B44F1/10 B44F1/12 B44F7/00 G02B1/10 G02B5/00 G02B5/12 G02B5/18 G02B5/20 G02B5/32 G02F1/01 G03H1/00 G03H1/02 G03H1/04 G03H1/18 G09F3/03 G09F3/10 G09F9/302 (Advanced/Invention); G03H1/00 (Advanced/Non-invention); B41M3/14 B42D15/10 B44F1/00 B44F7/00 G02B1/10 G02B5/00 G02B5/12 G02B5/18 G02B5/20 G02B5/32 G02F1/01 G03H1/00 G03H1/18 G09F3/03 G09F3/10 G09F9/302 (Core/Invention)

CPC: B42D25/29 B42D25/328 G03H1/0256 B42D2033/18
B42D2035/24 B42D25/378
European: B42D15/00C G03H1/02L5 L42D33/18 L42D35/22
L42D35/24



Family:

Publication number	Publication date	Application number	Application date
AU2007201905 AA	20071129	AU20070201905	20070430
AU2007201905 BB	20100429	AU20070201905	20070430
CA2587039 AA	20071112	CA20072587039	20070502
CA2587039 C	20140826	CA20072587039	20070502
CN101070040 A	20071114	CN200710106891	20070514
EP1854642 A2	20071114	EP20070251793	20070428
EP1854642 A3	20130123	EP20070251793	20070428
EP1854642 B1	20150527	EP20070251793	20070428
JP2007304601 A2	20071122	JP20070127435	20070511
KR101536335 B1	20150713	KR20070045702	20070510
KR20070110201 A	20071116	KR20070045702	20070510
TW200805011 A	20080116	TW20070116288	20070508
TWI509374 B	20151121	TW20070116288	20070508

Priority:

US20060747142P 20060512 CA20072587039 20070502

Probable Assignee: JDS UNIPHASE CORP

Assignee(s): (std): JDS UNIPHASE CORP ; VIAVI SOLUTIONS INC

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Inventor(s): PHILLIPS ROGER WUS ; TAGEUR ELENA8 MCLENNAN WAYOTTAWAO1K2L 2M9CA ; ROGER W PHILLIPS ; ELENA TAGUER

Agent(s): FISHER ADAMS KELLY PTY LTD; FISHER ADAMS KELLY CALLINANS; SPRUSON AND FERGUSON; FISHER ADAMS KELLY; TEITELBAUM AND MACLEAN; GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP; MCKECHNIE NEIL HENRY

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

3) Family number: 42386877 (US2004151827A)

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Title: OPAQUE FLAKE FOR COVERT SECURITY APPLICATIONS

Abstract: Opaque flakes, such as pigment or bright flake used in paints and inks, have a selected shape and/or other indicia to provide a covert security feature to an object. In some embodiments the composition includes base pigment, and the opaque covert flakes match the visual characteristics of the base pigment. In another embodiment, opaque covert flakes are mixed in the carrier with base pigment at a concentration sufficient to avoid changing the appearance of the composition. In another embodiment, opaque covert flakes are mixed in a clear or tinted varnish base that can be applied over an existing security feature. Shaped opaque covert flakes are not readily detectable by casual observation, but in some embodiments are easily seen at 100x magnification.

Classifications:

International (IPC 8-9): B32B5/66 B44F1/12 C06B23/00 C09C1/00 C09C1/04 C09D11/00 C09D5/36 H01F10/12 (Advanced/Invention)

International (IPC 1-7): B44F1/12

CPC: Y10T428/25 Y10T428/256 Y10T428/2991 Y10T428/2998

C01P2006/42 C01P2006/62 C01P2006/63 C01P2006/64

C01P2006/65 C01P2006/66 C09C1/0015 C09C1/0018 C09C1/0078

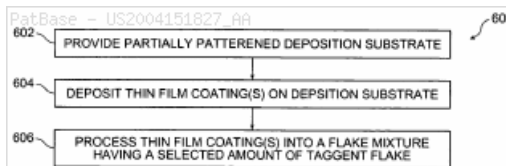
C09C1/0081 C09C2200/301 C09C2200/308 C09C2210/30

C09C2210/40 C09C2210/50 C09C2220/20 C09D5/36 C09D11/50

G03H2270/24 H01F10/12 B42D25/328 B42D25/378 B42D25/351 C09C1/04

European: C09C1/00F C09C1/00F2 C09C1/00G C09C1/00H C09C1/04 C09D11/50 C09D5/36 H01F10/12 L42D33/16

L42D33/20 L42D35/24 M01P6/42 M01P6/62 M01P6/63 M01P6/64 M01P6/65 M01P6/66 M09C200/30B M09C200/30P



Family:

Publication number	Publication date	Application number	Application date
US2004151827 AA	20040805	US20040762158	20040120
US7241489 BB	20070710	US20040762158	20040120

Priority:

US20020243111 20020913 US20030641695 20030814 US20040762158 20040120

Probable Assignee: JDS UNIPHASE CORP

Assignee(s): (std): FLEX PRODUCTS INC A JDS UNIPHA ; JDS UNIPHASE CORP

Assignee(s): OPTICAL COATING LABORATORY INC ; FLEX PRODUCTS INC A JDS UNIPHASE CO ; FLEX PRODUCTS INC

Inventor(s): (std): COOMBS PAUL G ; ARGOITIA ALBERTO ; MARKANTES CHARLES T

Agent(s): ALLEN DYER DOPPELT MILBRATH AND GILCHRIST PA

4) Family number: 31866947 (US2005087087A)

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Title: IDENTIFICATION DEVICES AND METHOD FOR PRODUCING THE IDENTIFICATION DEVICE

Abstract: Identification devices and methods of producing the identification devices are presented. Some embodiments of identification devices comprise a structure having a micro-optic image and a layer that is overprinted onto the surface of the structure. In some embodiments, the structure is a substantially planar structure, such as a cardstock sheet, and the micro-optic image is a hologram. A web-fed flexographic printing process is presented, in which the process comprises the steps of providing a web, determining a feed rate for the web, feeding the web at the determined feed rate, and overprinting onto a surface of the web. In some embodiments, the web has a micro-optic structure and an eye-mark. The micro-optic structure is located at a predefined position on the web, and the eye-mark is located at a fixed position with reference to the position of the micro-optic structure. The feed rate is determined using the eye-mark. In some embodiments, the micro-optic structure is a hologram.

Classifications:

International (IPC 8-9): B41F33/00 B41M1/04 (Advanced/Invention);

B41M3/14 (Advanced/Non-invention);

B41F33/00 B41M1/00 (Core/Invention);

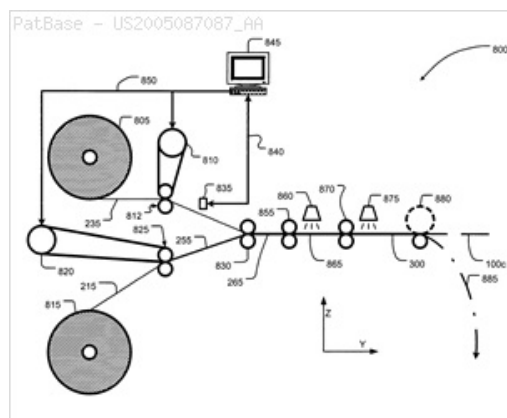
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International (IPC 1-7): B41F33/00 B41M1/04

CPC: B41M1/04 B41M3/148

European: B41M1/04 L41M3/14T

US: 101/23 101/483 101/485 101/490



Family:

Publication number	Publication date	Application number	Application date
US2005087087 AA	20050428	US20030694340	20031027
US2005279237 AA	20051222	US20050200376	20050809
US6952994 BB	20051011	US20030694340	20031027
US7036431 BB	20060502	US20050200376	20050809

Priority:

US20030694340 20031027 US20050200376 20050809

Probable Assignee: JPATTON SPORTS MARKETING

Assignee(s): (std): DUNN MATT ; DUNN MIKE ; JPATTON SPORTS MARKETING ; KELLER JAMES T ; PATTON JIM

Assignee(s): FETTER PRINTING CO

Inventor(s): (std): DUNN MATT ; DUNN MIKE ; KELLER JAMES T ; KELLER JAMES THOMAS ; PATTON JIM

Inventor(s): KELLER JAMES

Agent(s): THOMAS KAYDEN HORSTEMEYER AND RISLEY LLP; THOMAS KAYDEN HORSTEMEYER AND RISLEY

5) Family number: 30399972 (US2004101982A)

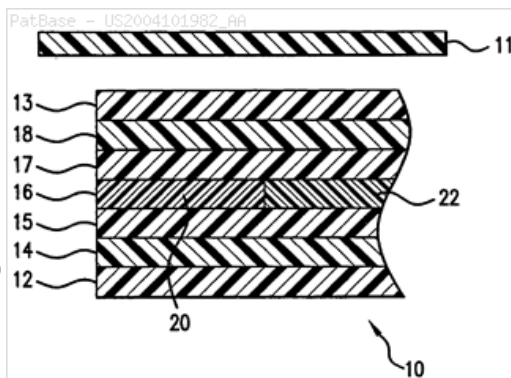
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Title: HOLOGRAPHIC OR OPTICALLY VARIABLE PRINTING MATERIAL AND METHOD FOR CUSTOMIZED PRINTING

Abstract: A transfer recording material allowing the production of customized holographic images is described. The transfer recording material comprises a multilayer structure on a carrier forming a plurality of panels. A portion of the multilayer structure corresponding to a panel comprises an embossable layer (holographic layer) wherein each pixel is configured to reflect incoming light at a predetermined angle #1. Each pixel corresponding to the embossable layer of an adjacent panel is configured to reflect incoming light at a different predetermined angle #2. The transfer recording material can have as many panels as desired by a particular application, each of the layers having an embossable layer with pixels configured to reflect incoming light at a certain angle #. The transfer material is therefore formed by a plurality of spaced-apart panels each of which comprises an embossable holographic layer reflecting light at a predetermined angle different from that of other panels. Upon activation of a surface of a printer head, pixels from different panels transfer onto a substrate, forming a desired customized holographic design.

Classifications:

International (IPC 8-9): B41J2/325 B41M3/14 B41M5/382 B41M5/42 B42D15/10 B44C1/17 G02B5/32 G03H1/02 G03H1/04 G03H1/08 G03H1/18 G03H1/30 H01L21/00 (Advanced/Invention); G03H1/04 (Advanced/Non-invention)
International (IPC 1-7): B42D15/10 B42D5/10 G03H G03H1/00 G03H1/04 G03H1/18 G03H1/30 H01L21/00 H01L29/06 H01L31/0328 H01L31/0336 H01L31/072 H01L31/109
CPC: G03H1/0476 B41M5/42 B41M5/38214 B44C1/1716 G03H1/0011 G03H1/0252 G03H1/028 G03H1/30 G03H2001/0497 G03H2210/54 G03H2250/10 G03H2250/36 G03H1/0244 G03H2210/53 G03H2250/34 G03H2270/23 B42D25/328
European: B41M5/382A2 B41M5/38A2 B41M5/40C B41M5/42 B42D15/10D B44C1/17F2 G03H1/02 G03H1/02L G03H1/08 G03H1/30 S03H1/00A1 S03H1/02X2 S03H1/04S13 S03H210/54 S03H250/10 S03H250/36 S03H270/20
US: 257/21 257/22 438/10 438/10P



Family:

Publication number	Publication date	Application number	Application date
AU2003267108 AA	20040430	AU20030267108	20030910
AU2003267108 AH	20040430	AU20030267108	20030910
CN100470406 C	20090318	CN20038021466	20030910
CN1735843 A	20060215	CN20038021466	20030910
DE60347760 D1	20150806	DE20036047760	20030910
EP1576425 A2	20050921	EP20030749585	20030910
EP1576425 A3	20050928	EP20030749585	20030910
EP1576425 B1	20150701	EP20030749585	20030910
JP2005538423 T2	20051215	JP20040536470T	20030910
JP2010277100 A2	20101209	JP20100157228	20100709
KR101005445 B1	20110105	KR20057004055	20030910
KR20050039874 A	20050429	KR20057004055	20030910
US2004101982 AA	20040527	US20030605139	20030910
US6835948 BB	20041228	US20030605139	20030910
WO04025378 A2	20040325	WO2003US28444	20030910
WO04025378 A3	20050811	WO2003US28444	20030910

Priority:

US20020319541P 20020910 EP20030749585 20030910 JP20040536470 20030910
US20030605139 20030910 WO2003US28444 20030910

Probable Assignee: ILLINOIS TOOL WORKS INC

Assignee(s): (std): ILLINOIS TOOL WORKS ; WOONTNER MARC O

Assignee(s): ILLINOIS TOOL WORKS INC ; ILLINOIS TOOL WORKS INC GLENVIEW ; ILLINOIS TOOL WORKS INC ITW

Inventor(s): (std): WOONTNER MARC O

Inventor(s): WOONTNER O MARC ; MARC O WOONTNER

Agent(s): TRINKS OLE

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 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 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