

PatBase - Search results 12 September 2018

Search query (4): fn=(59069281 or 58870604 or 61457489 or 59601067 or 67558247 or 59601067 or 61457489 or 64636881 or 69736371 or 57553323 or 57553323 or 57801299 or 59338221 or 61123246 or 57801299 or 59338221 or 58870604 or 59400843 or 61123246 or 58065472 or 58870604 or 61457646 or 61914616 or 65615885 or 69736371 or 30420361 or 31056497 or 41789283 or 48222803 or 6468809 or 2244671 or 33313856 or 34381938 or 32198088 or 30390643 or 33452121 or 30718052 or 31970128 or 44937307 or 44962500 or 45520295 or 19606224 or 22823066 or 7692658 or 28398264 or 6817956 or 7940926 or 7735784 or 3890263 or 5301931 or 6181579 or 2244671 or 4840862 or 3545057 or 28298833 or 15151703 or 12491332 or 10321486 or 20706562 or 26215454 or 32612151 or 34381938 or 29908419 or 33452121)

Results: 52

Title:
REFLEX LIGHT REFLECTOR

Abstract:

Source: US2326634A to, what we claim is as follows: 1. A reflex light reflector of the type having a layer of small transparent spheres providing a multiplicity of contiguous convex lens elements and having associated reflector means adapted in combination therewith to provide reflex reflection, characterized by said spheres having a refractive index within the range of approximately 1.70-1.90 so as to produce high brilliancy. 2. A reflex light reflector of the class in which a light-returning layer of contiguous small transparent spheres is partially embedded in a bonding layer with ...

Probable Assignee:

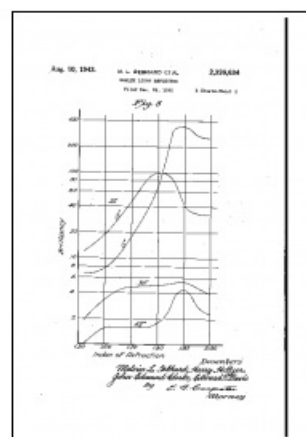
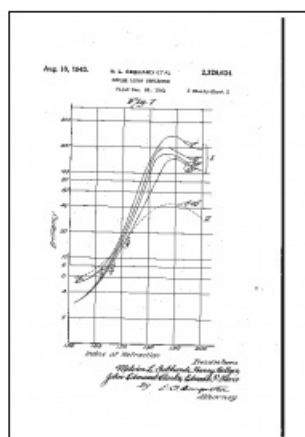
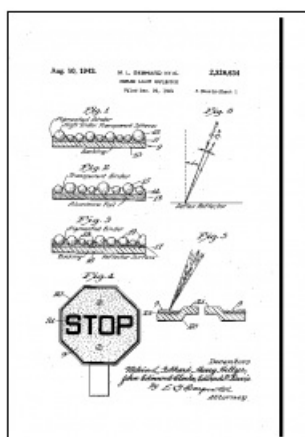
3M CO

Assignee(s):(std):

3M CO ; MINNESOTA MINING AND MFG

Assignee(s):

MINNESOTA MINING AND MFG CO ;
MINNESOTA MINING AND
MANUFACTURING COMPANY



Title:

RETROREFLECTIVE SHEETING WITH
RETROREFLECTIVE MARKINGS

Abstract:

Source: US4082426A Retroreflective sheeting is taught which incorporates markings that are distinctly visible when the sheeting is viewed at an angle under retroreflective viewing conditions, thereby allowing a viewer to determine the identity of the sheeting. The sheeting comprises a monolayer of microsphere-lenses; a spacing layer coated on the microsphere-lenses and contoured so as to generally follow the curved back surfaces of the microsphere-lenses; a specularly reflective layer coated over the spacing layer; and a transparent image layer disposed in an imagewise pattern between the ...

Probable Assignee:

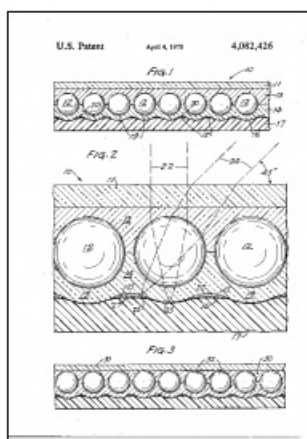
3M CO

Assignee(s):(std):

GUSTAV ADOLF BARTH ; JOHANNES LOHMANN ; KURT LOHMANN ; 3M CO ; LOHMANN KG ; MINNESOTA MINING AND MFG ; MINNESOTA MINING AND MFG CO ; MINNESOTA MINING AND MANUFACTURING CO ; MINNESOTA MINING ; MINNESOTA MINING MFG CO ; MINNESOTA MINING AND MANUFACTURING COMPANY TE SAIN ; MINNESOTA MINING MANUFACTURING ; MINNESOTA MINING AND MFG CO SOC DELLO S

Assignee(s):

MINNESOTA MINING AND MANUFACTURING COMPANY ; MINNESOTA MINING AND MANUFACTURING CO SAINT PAUL MINN V ST A ; MINNESOTA MINING AND MANUFACTURING CO SOC DELLO STATO DEL ; MINNESOTA MINING AND MANUFACTURING COMPANY TE SAINT PAUL MINNESOTA VER ST V AM ; MINNESOTA MINING AND MFG CO TE SAINT PAUL MINNESOTA VER ST V AM ; MINNESOTA MINING AND MANUFACTURING CO SAINT PAUL M ; BROWN ROBERT A ; LOHMANN K G



Title:
TAMPER-PROOF MARKINGS FOR
REFLECTING STRUCTURES

Abstract:

Source: US3154872A (Claim 1) 1. In a reflex-reflecting sheet structure having, at least in one portion thereof, a continuous back reflector and a compact monolayer of transparent beads thereover and transparently bonded in optical connection therewith, the improvement characterized by the feature that said continuous back reflector is a specular-reflecting metallic reflector provided with semi-specular pigmented legend markings no greater than about $\frac{1}{4}$ inch in width on a minor portion thereof, said markings being such that they exhibit a total intensity of specular reflection in the visible ...

Probable Assignee:

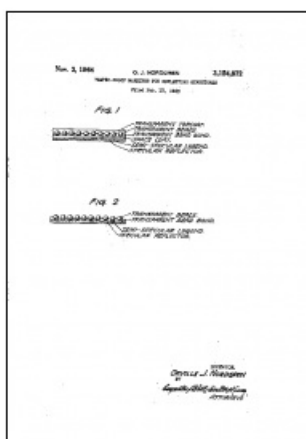
3M CO

Assignee(s):(std):

3M CO ; MINNESOTA MINING AND
MFG

Assignee(s):

MINNESOTA MINING AND MFG CO ;
MINNESOTA MINING AND
MANUFACTURING COMPANY



Title:
RETRO-REFLECTIVE FILM

Abstract:

Source: US3801183A Legend containing substantially transparent retro-reflective sheet materials and articles to which the sheet material has been applied, the sheet material having both retro-reflective legend areas and retro-reflective background areas which are substantially indistinguishable under ordinary diffuse light viewing conditions but are clearly distinguishable under retro-reflective viewing conditions inasmuch as either the background or the legend is a more efficient retro-reflector. The sheet material includes a monolayer of glass microspheres of at least 1.8 refractive index ...

Probable Assignee:

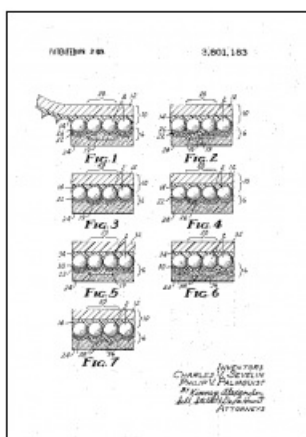
3M CO

Assignee(s):(std):

3M CO ; MINNESOTA MINING AND MFG

Assignee(s):

MINNESOTA MINING AND MFG CO
US ; MINNESOTA MINING AND
MANUFACTURING CO



Title:

THERMOCHROMIC PAINT FOR USE
ON PLASTIC SUBSTRATES

Abstract:

Source: US4105583A A thermochromic paint, which changes color when heated to a certain temperature, and which is particularly suited for use on plastic substrates which are subject to oxidative degradation is disclosed. The improvement comprises the addition to the thermochromic paint of a non-thermochromic compound selected from the group consisting of the sulfates, hydrated sulfates and nitrides of boron, aluminum, tin, lead, arsenic, antimony, bismuth, zinc and phosphorus; the sulfides and hydrated sulfides of boron, aluminum, bismuth and phosphorus; the oxides and hydrated oxides of ...

Probable Assignee:

RAYCHEM CORP

Assignee(s):(std):

RAYCHEM CORP

Assignee(s):

RAYCHEM CORP US ; GLOVER LEON
C ; LOPEZ EUGENE F

SUBSTITUTE
REPLACEMENT

SECTION is not Present
Cette Section est Absente

Title:

Reflective sheet material

Abstract:

Source: US4099838A A new sheet material carries specially viewable reflective legends provided by a dielectric mirror. The mirror is patterned so that the reflectivity from the mirror carries a pattern of contrasting colors. In some embodiments the mirror is incorporated into retroreflective sheet materials, and in other embodiments in specularly reflective sheet materials.

Probable Assignee:

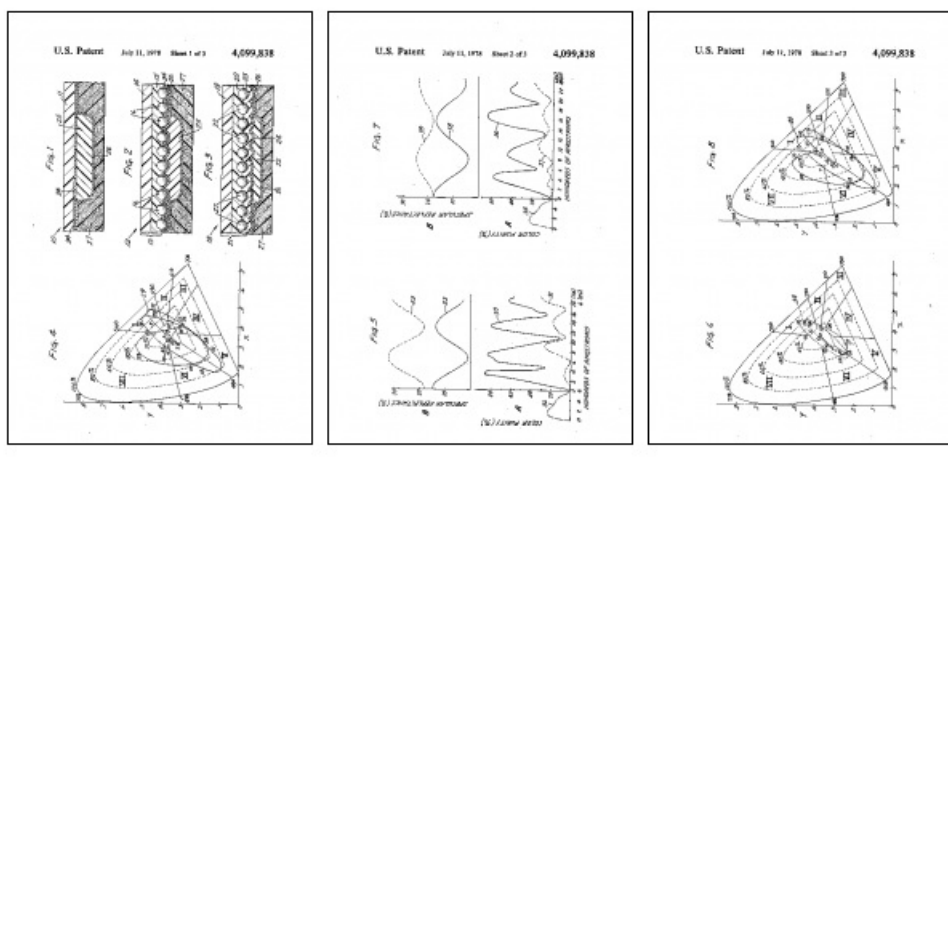
3M CO

Assignee(s):(std):

3M CO ; MINNESOTA MINING AND MFG

Assignee(s):

MINNESOTA MINING AND MANUFACTURING COMPANY



Title:

APPARATUS FOR, AND METHOD OF,
RECORDING AND VIEWING LASER-
MADE IMAGES ON HIGH GAIN
RETROREFLECTIVE SHEETING

Abstract:

Source: US4200875A Apparatus for, and method of, recording with radiation from a laser light beam a preselected pattern, that is transparent and/or opaque, on a target made of high gain retroreflective sheeting of the exposed-lens type, with the target inclined at a previously chosen angle; and, thereafter, viewing the recorded image of the pattern (which is recorded on the target by structural alteration, i.e., modification, of the target material that is caused by the laser light beam radiation), solely with the naked eye and in ambient light. The recorded image can be seen only when ...

Probable Assignee:

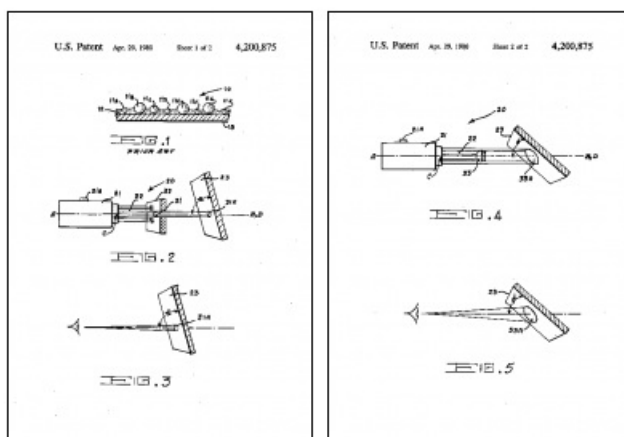
US AIR FORCE

Assignee(s):(std):

US AIR FORCE

Assignee(s):

U S OF AMERICA AIR FORCE
SECRETARY



Title:

THERMOCHROMIC COMPOSITIONS

Abstract:

Source: US4424990A This invention provides novel thermochromic compositions which exhibit distinct color changes at temperatures in the range of about 165 DEG C. to about 240 DEG C. The compositions comprise basic copper carbonate and a sulfur compound. Paint formulations containing these novel thermochromic compositions or complexes of copper and sulfur-containing organic acids are also provided. The compositions are useful with heat-recoverable memory metal couplings to prevent overheating of the couplings during installation.

Probable Assignee:

RAYCHEM CORP

Assignee(s):(std):

RAYCHEM CORP

Title:

IDENTIFICATION CARD WITH
DUPLICATE DATA

Abstract:

Source: US4597592A Data present on identification cards in a high-embossed form are protected against attempted forgery and falsification. This protection consists in providing on the identification card, along with the data record in a high-embossed form, a second identical data record which may be visually tested without auxiliary means and is inscribed in the identification card by means of a laser recorder.

Probable Assignee:

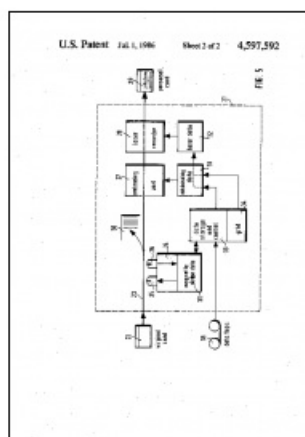
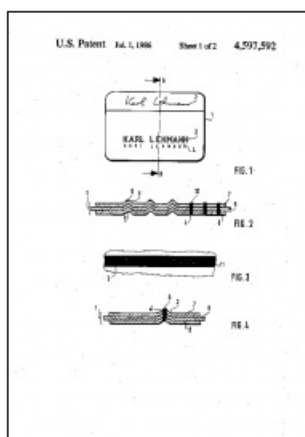
GAO GES FUR AUTOMATION U
ORGANISATION MBH

Assignee(s):(std):

GAO GES AUTOMATION ORG ;
DEVRIENT LUDWIG ; MAURER
THOMAS

Assignee(s):

GAO GES ; GAO GES AUTOM ORG
MBH ; GAO GESELLSCHAFT FUR
AUTOMATION UND ORGANISATION ;
GAO GES FUR AUTOMATION U
ORGANISATION MBH ; GAO
GESELLSCHAFT FUR AUTOMATION
UND ORGANISATION MBH ; GAO
GESELLSCHAFT FUR AUTOMATION
UND ORGANISATION MBH 8000
MUENCHEN DE ; GAO
GESELLSCHAFT FUR AUTOMATION
UND ORGANISATION MBH ; GEE AA
OO G FUYUURU AUTOMATSUIOON
UNTO ORUGANIZATSUIOON MBH ;
GAO GES F AUTOMATION U
ORGANISATION MBH 8000
MUENCHEN DE ; GAO GES F
AUTOMATION U ORGANISATION
MBH



Title:

ALLOY HAVING VARIABLE SPECTRAL REFLECTANCE AND INFORMATION RECORDING MATERIAL MAKING USE OF THE SAME

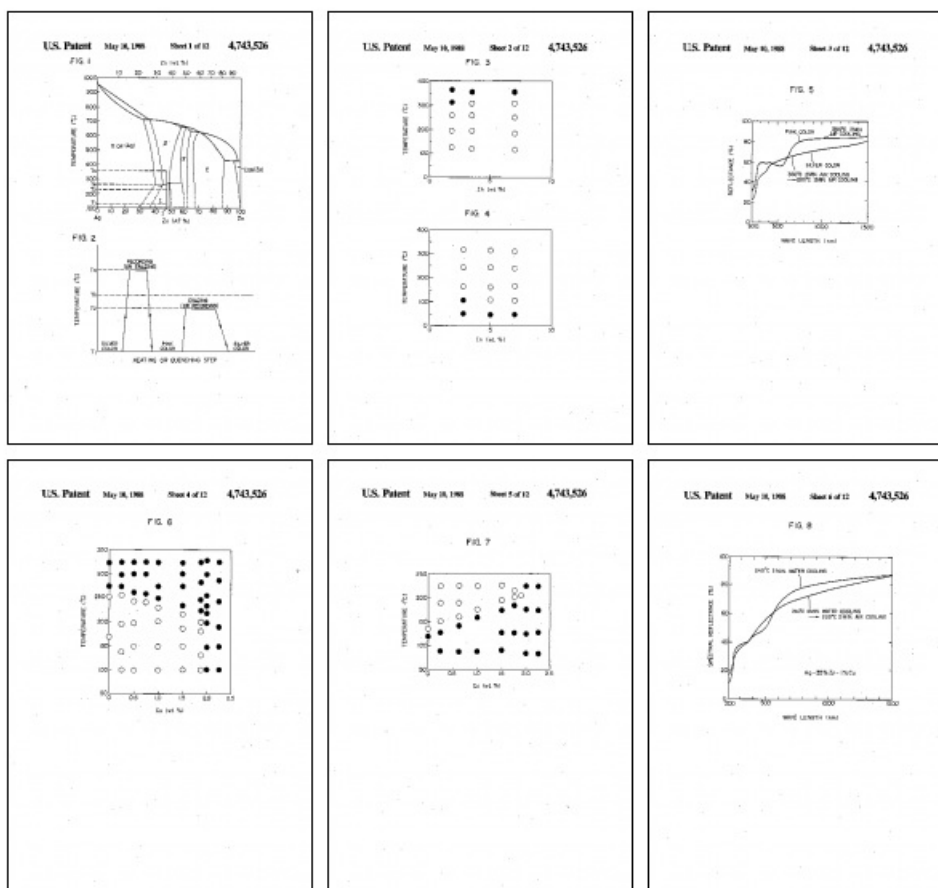
Abstract:

Source: US4743526A An alloy having variable spectral reflectance having a composition which essentially consists of Ag, 30 to 46 wt percent of Zn and 0.1 to 15 wt percent in total of at least one element selected from elements of groups Ia, IIa, Iva, Va, VIa, VIIa, VIII, Ib to Vb and rare earth elements, the alloy being able to have different crystal structures, one of which is obtained when it is held in solid state at a first temperature above the room temperature, another of which is obtained when the same is held in the solid state at a second temperature lower than said first ...

Probable Assignee:
HITACHI LTD

Assignee(s):(std):
HITACHI LTD

Assignee(s):
HITACHI LTD 6 KANDA SURUGADAI
4 CHOME CHIYODA KU TOKYO
JAPAN A CORP OF JAPAN



6 more images available

Title:

CARD-SHAPED DATA CARRIER AND METHOD OF PRODUCING IT.
KARTENFOERMIGER DATENTRAEGER UND VERFAHREN ZU SEINER HERSTELLUNG. PORTEUR D'INFORMATIONS AYANT LA FORME D'UNE CARTE ET SON PROCEDE DE FABRICATION.

Abstract:

Source: EP0216947A1 Card-shaped data carrier with a substrate and at least one transparent cover foil, which substrate is provided with information items which are recognisable through the cover foil by using a laser beam through the cover foil, the transparent cover foil (2) carrying a relief (3) which has been applied before the recording of the information items and which at least partially overlaps the information area, which relief characteristically changes the information recording due to its optical lens effect, and method for fabricating it. Kartenfoermiger Datentraeger mit einem ...

Probable Assignee:

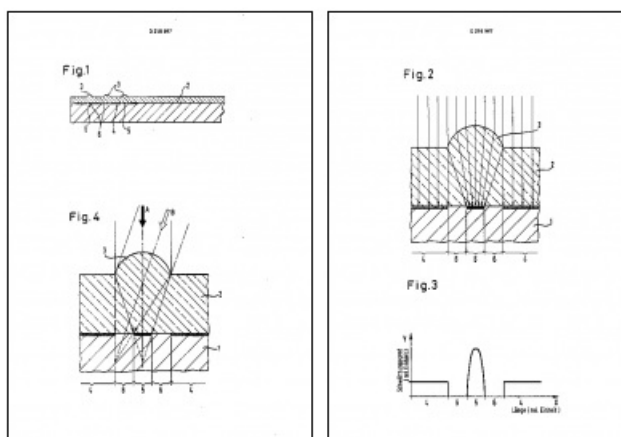
MAURER ELECTRONICS GMBH

Assignee(s):(std):

MAURER ELECTRONICS GMBH

Assignee(s):

MAURER ELECTRONICS GMBH 8000 MUENCHEN DE ; LEIGH MARDON PTY LTD



Title:
METHOD OF MAKING
ENCAPSULATED-LENS
RETROREFLECTIVE SHEETING

Abstract:

Source: US4897136A In encapsulated-lens reflective sheeting of the prior art, a monolayer of glass microspheres is embedded in a binder layer, a specularly reflective layer underlies the microspheres, and a cover film encapsulates the microspheres, within a plurality of hermetically sealed cells. In the invention, a HMW thermoplastic binder film, affords improved structural integrity, greater toughness, and better conformability to irregular surfaces without cracking. The cover film preferably is of the same polymer family as said binder film.

Probable Assignee:

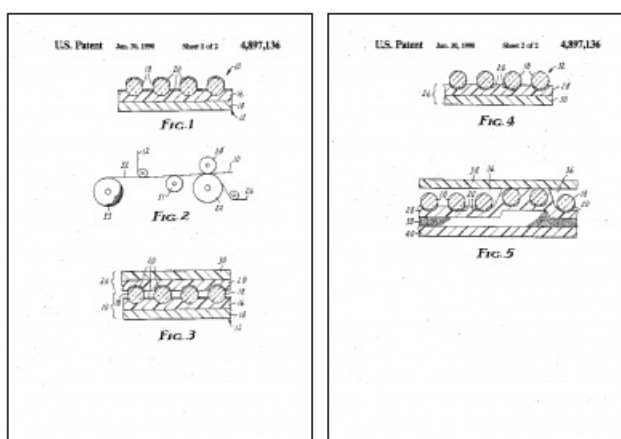
3M CO

Assignee(s):(std):

3M CO ; MINNESOTA MINING AND MFG

Assignee(s):

MINNESOTA MINING AND MFG CO ;
MINNESOTA MINING AND MFG CO
SAINT PAUL MINN US ; MINNESOTA
MINING AND MFG CO It 3M gt ;
TOLLIVER HOWARD R ; BAILEY
TERRY R ; DICKSON ARTHUR D ;
KULT ROGER R ; MINESOTA
MAININGU ANDO MFG CO ;
MINNESOTA MINING AND
MANUFACTURING COMPANY



Title:

PLANO-CONVEX BASE SHEET FOR
RETROREFLECTIVE ARTICLES

Abstract:

Source: US5254390A An article comprising a transparent plano-convex base sheet having first and second broad faces, the second face being substantially planar and the first face having an array of substantially hemi-spheroidal microlenses thereon, the shape of the microlenses and thickness of the base sheet being such that collimated light substantially orthogonally incident to the array is focused approximately at the second face. The article optionally further comprising a specularly reflective layer on the second face which renders the base sheet retroreflective. An optional layer of ...

Probable Assignee:

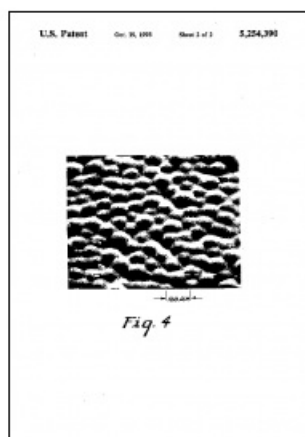
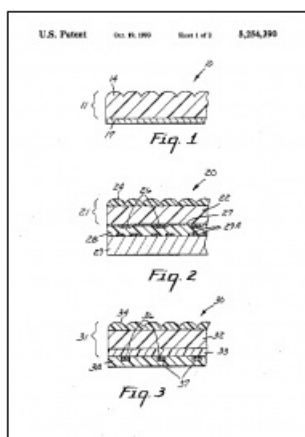
3M CO

Assignee(s):(std):

MINNESOTA MINING AND MFG

Assignee(s):

MINNESOTA MINING AND MFG CO ;
MINNESOTA MINING AND MFG CO ;
PO BOX 33427 ; MINNESOTA
MINING AND MFG CO SAINT PAUL
MINN US ; MINNESOTA MINING AND
MFG CO SAINT PAUL ; 3M CO ; 3M
INNOVATIVE PROPERTIES CO ; LU
SHIH LAI ; MINNESOTA MINING AND
MANUFACTURING COMPANY



Title:

Security device for security documents such as bank notes and credit cards

Abstract:

Source: US5712731A PCT No. PCT/GB94/01006 Sec. 371 Date Jan. 2, 1996 Sec. 102(e) Date Jan. 2, 1996 PCT Filed May 10, 1994 PCT Pub. No. WO94/27254 PCT Pub. Date Nov. 24, 1994A security device includes an array of microimages which, when viewed through a corresponding array of substantially spherical microlenses, generates a magnified image. In some cases, the array of microlenses is bonded to the array of microimages.

Probable Assignee:

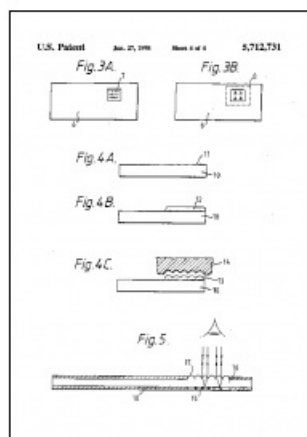
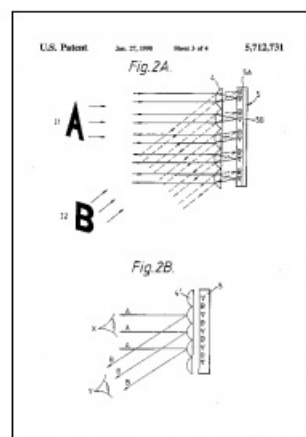
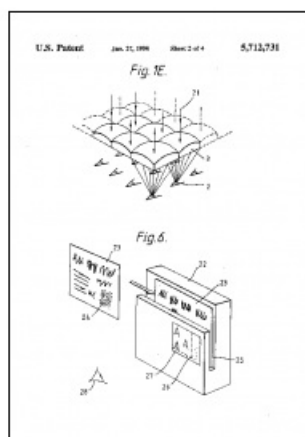
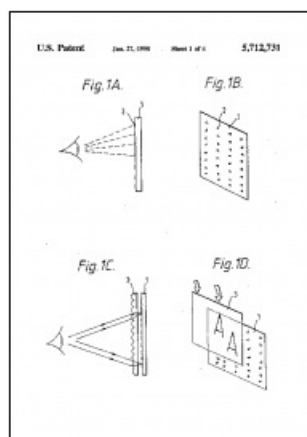
DE LA RUE INT LTD

Assignee(s):(std):

DE LA RUE THOMAS AND CO LTD ; THOMAS DE LA RUE LTD ; RUE INT LTD DE ; RUE DE INT LTD ; DRINKWATER KENNETH JOHN ; HUDSON PHILIP MARK GURNEY ; DE LA RUE HOLOGRAPHICS LTD

Assignee(s):

DE LA RUE INT ; DE LA RUE INT LTD ; DE LA RUE INTERNATIONAL LIMITED ; DE LA RUE INTERNATIONAL LTD ; DE LA RUE INTERNATIONAL LTD LONDON ; DE LA RUE HOLOGRAPHICS LIMITED ; LA RUE HOLOGRAPHICS DE LIMITED ; THOMAS DE LA RUE LIMITED ; THOMAS DE LA RUE LTD LONDON GB



Title:
CONFORMABLE CUBE CORNER
RETROREFLECTIVE SHEETING**Abstract:**

Source: US2001040731A

Conformable cube corner retroreflective sheetings comprising a plurality of discrete cube corner segments which are conformably bonded together, each cube corner segment comprising a plastic body portion having a substantially planar front major surface and at least one minute cube corner retroreflective element projecting rearwardly from the body portion and defining a cube corner point side of the cube corner segment. The peripheries of the cube corner segments can be defined by a plurality of separations extending from the cube corner point sides to the front ...

Probable Assignee:

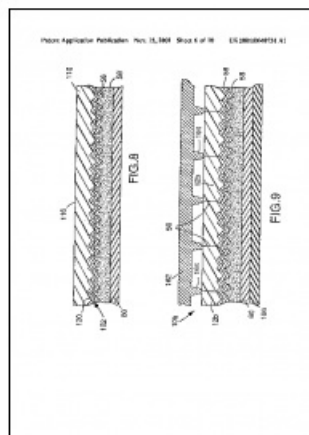
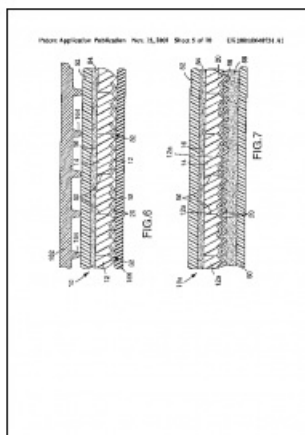
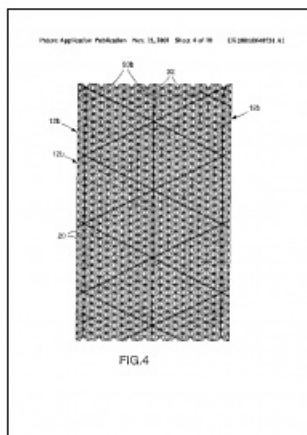
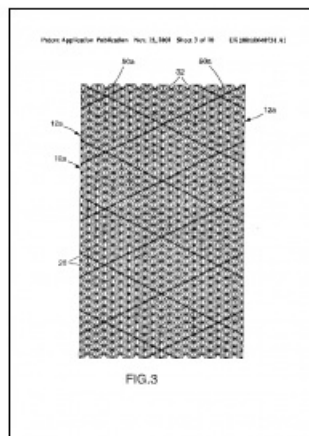
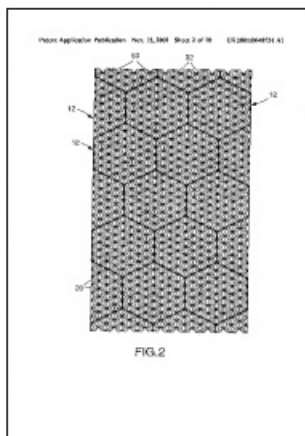
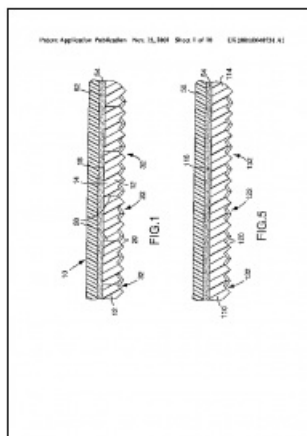
3M CO

Assignee(s):(std):

3M CO ; 3M INNOVATIVE
PROPERTIES CO ; 3M INNOVATIVE
PROPERTIES COMPA ; MINNEOTA
MINING AND MANUFACTUR ;
MINNESOTA MINING AND MFG ;
MINNEOTA MINING AND MFG CO ;
MINNESOTA MINING AND MFG CO

Assignee(s):

MINNESOTA MINING AND
MANUFACTURING CO ; MINNESOTA
MINING AND MFG CO SAINT PAUL ;
CODERRE JAMES C ; HUANG TZU LI
J ; LIGHTLE VERA L ; FREY CHERYL
M ; BENSON OLESTER JR ;
MINNESOTA MINING AND MFG CO
SAINT PAUL MINN US ; SMITH
KENNETH L ; NESTEGARD SUSAN K ;
SHUSTA JEANINE M ; MINNEOTA
MINING AND MANUFACTURING CO ;
MINNESOTA MINING AND
MANUFACTURING COMPANY ; 3M
INNOVATIVE PROPERTIES COMPANY
; BACON CHESTER A ; BACON
CHESTER A JR ; BENSON GERALD M



4 more images available

Title:
CLOTHING BEARING
RETROREFLECTIVE APPLIQUES

Abstract:

Source: US5738746A An article of clothing 10 bearing a retroreflective applique 12 that has a binder layer 14 onto which a retroreflective layer 19 is disposed. The retroreflective layer 19 includes a layer of optical elements 16 and a metal reflective layer 18, and the binder layer 14 includes a thermoplastic copolymer that includes units which contain carboxyl groups. A retroreflective applique, which uses such a binder layer in conjunction with aluminum-coated or silver-coated optical elements, demonstrates very good home laundering durability.

Probable Assignee:

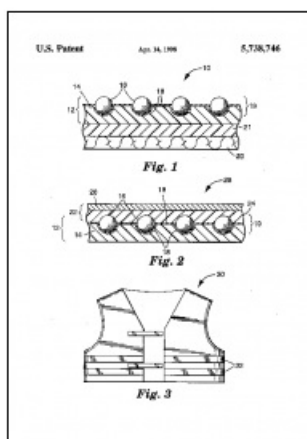
3M CO

Assignee(s):(std):

3M CO ; 3M INNOVATIVE
PROPERTIES CO ; MINNESOTA
MINING AND MFG

Assignee(s):

MINNESOTA MINING AND MFG CO ;
MINNESOTA MINING AND MFG CO
SAINT PAUL MINN US ; 3M
INNOVATIVE PROPERTIES COMPANY
; BILLINGSLEY BRITTON G ;
LIGHTLE VERA L ; MINNESOTA
MINING AND MANUFACTURING
COMPANY



Title:
RETROREFLECTIVE TRANSFER
SHEET AND APPLIQUE

Abstract:

Source: US5674605A A retroreflective applique is provided that includes a layer of optical lens elements partially embedded in and protruding from a transfer adhesive layer prepared from ingredients comprising a vinyl plastisol and a substantially nonhydrolyzed aminosilane adhesion promoter; wherein the aminosilane adhesion promoter is used in an amount effective to produce an applique capable of: (a) retaining at least about 60 percent of its initial retroreflectivity after being laminated to 65/35 polyester/cotton blend fabric (100 grams per square metre) at about 174 DEG C. and about ...

Probable Assignee:

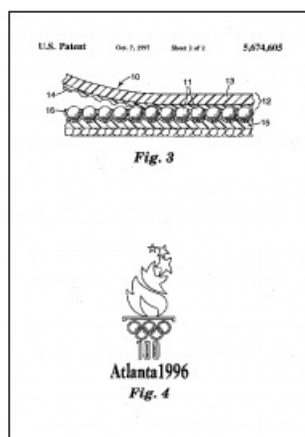
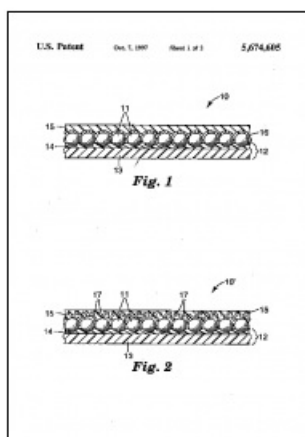
3M CO

Assignee(s):(std):

MINNESOTA MINING AND
MANUFACTURING CO ; MINNESOTA
MINING AND MANUFACTURING
COMPANY ; MINNESOTA MINING
AND MFG

Assignee(s):

MINNESOTA MINING AND MFG CO ;
MINNESOTA MINING AND MFG CO
SAINT PAUL ; 3M CO ; MARECKI
PAUL E



Title:

Method of making glittering cube-corner retroreflective sheeting

Abstract:

Source: US5770124A A method of making a glittering cube-corner sheeting, which method includes: (a) providing a first retroreflective sheeting that includes an array of cube-corner elements arranged in a repeating pattern; and (b) exposing the first retroreflective sheeting to heat, pressure, or a combination thereof to produce a second retroreflective sheeting that comprises an array of cube-corner elements that are randomly tilted; or which method may comprise: (a) providing a mold that has a structured surface that includes a multiplicity of cube-corner elements, the cube-corner elements ...

Probable Assignee:

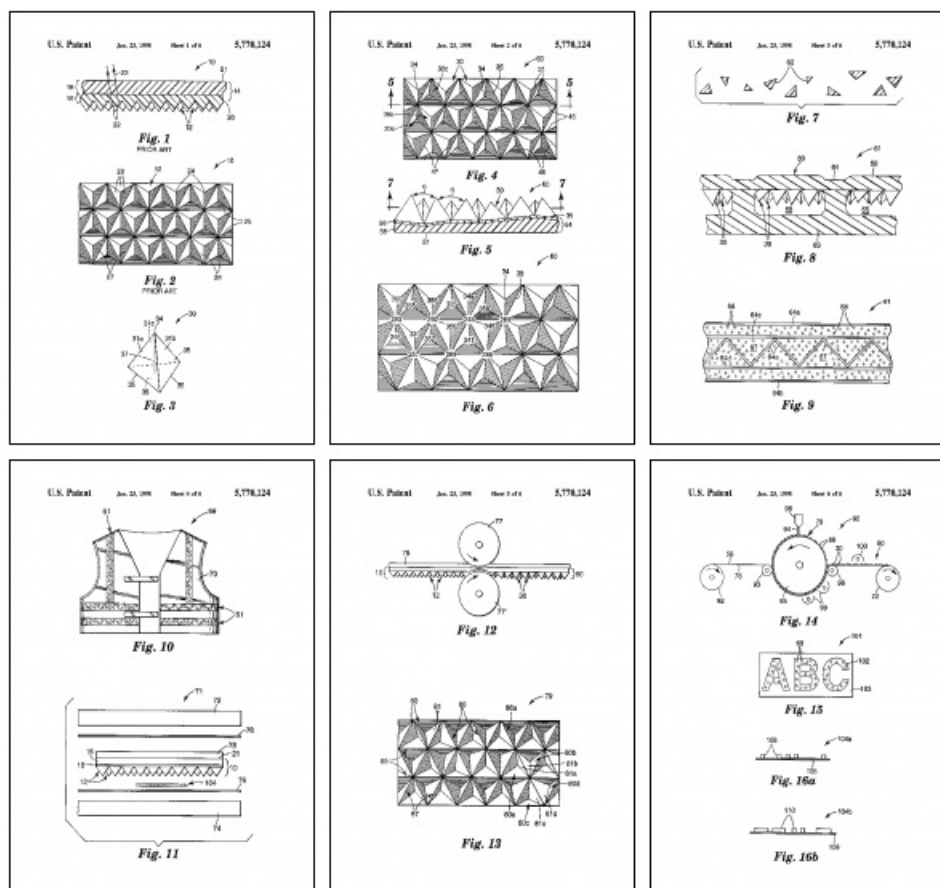
3M CO

Assignee(s):(std):

MINNESOTA MINING AND MFG

Assignee(s):

MINNESOTA MINING AND MFG CO ;
MINNESOTA MINING AND MFG CO
ST PAUL ; SHUSTA JEANINE M ; 3M
CO ; ATKINSON MATTHEW R ;
BENSON OLESTER JR ; FREY CHERYL
M ; MARECKI PAUL E ; MINNESOTA
MINING AND MANUFACTURING
COMPANY



Title:
SHEETING WITH COMPOSITE IMAGE
THAT FLOATS

Abstract:

Source: US2002054434A Microlens sheetings with composite images are disclosed, in which the composite image floats above or below the sheeting, or both. The composite image may be two-dimensional or three-dimensional. Methods for providing such an imaged sheeting, including by the application of radiation to a radiation sensitive material layer adjacent the microlenses, are also disclosed.

Probable Assignee:

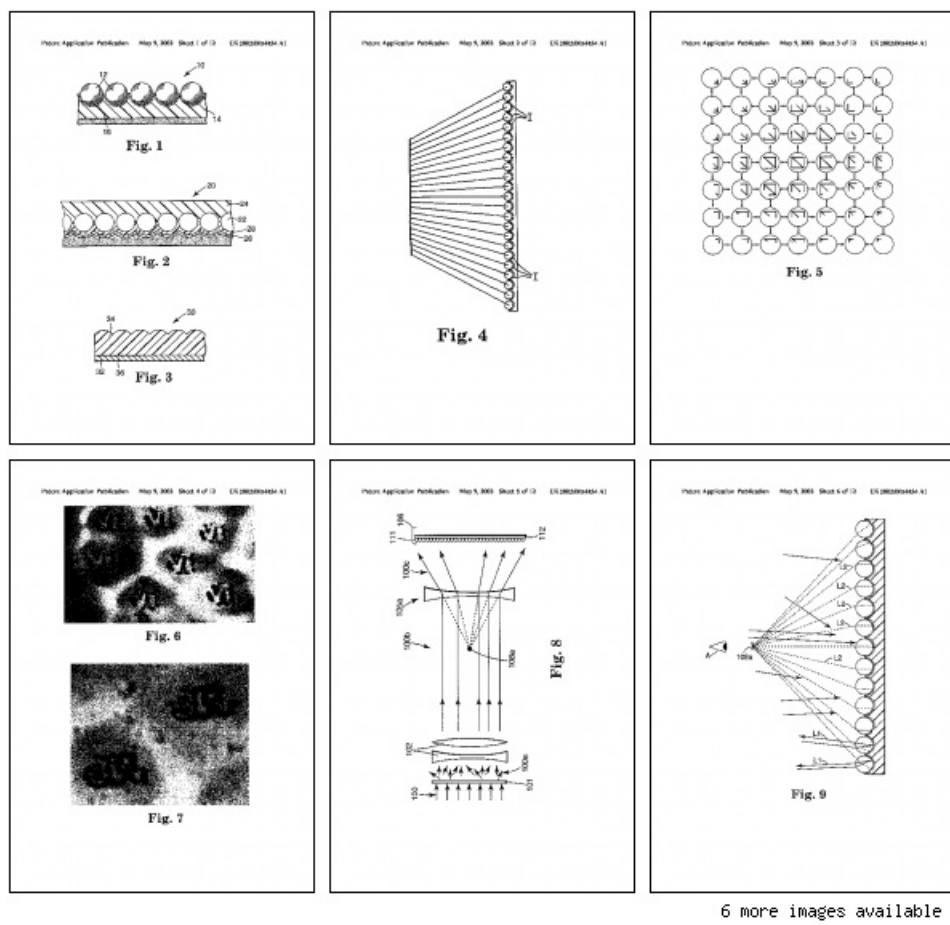
3M CO

Assignee(s):(std):

3M INNOVATIVE PROPERETIES COMPANY ; 3M INNOVATIVE PROPERTIES ; 3M INNOVATIVE PROPERTIES CO ; DOLEZAI MICHAEL W ; DOLEZAI MICHAEL W ; SMITHSON ROBERT L W ; KRASA ROBERT T ; FLORCZAK JEFFREY M ; OSGOOD III RICHARD M ; DUNN DOUGLAS S ; MAKI STEPHEN P ; THREE M INNOVATIVE PROPERTIES ; 3M CO ; 3M CO MINNESOTA MINING AND MFG COMPANY

Assignee(s):

3M INNOVATIVE PROPERETIES CO ; UNISYS CORP ; OSGOOD RICHARD M III ; SMITHSON ROBERT LW ; THREE M INNOVATIVE PROPERTIES CO ; 3M INNOVATIVE PROPERTIES CO SAINT PAUL ; 3M INNOVATIVE PROPERTIES CO SAINT PAUL MINNESOTA ; 3M INNOVATIVE PROPERTIES COMPANY ; 3M INNOVATIVE PROPERTIES COMPANY SAINT PAUL ; 3M INNOVATIVE PROPERTIES COMPANY SAINT PAUL MINNESOTA



6 more images available

Title:
MICRO-OPTICS FOR ARTICLE
IDENTIFICATION

Abstract:

Source: US2003179364A The present invention provides methods and compositions for authentication of articles and counterfeit deterrence using non-holographic micro-optics and microstructures having a surface relief greater than a few microns. Embodiments of the present invention disclose a range of distinctive optical effects obtained from micro-optic systems incorporating micro lenses, non-imaging collectors, prisms, wave guides, mirrors, gratings, structural interference filters, and photonic crystal microstructures.

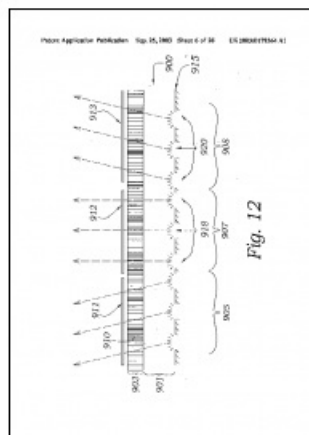
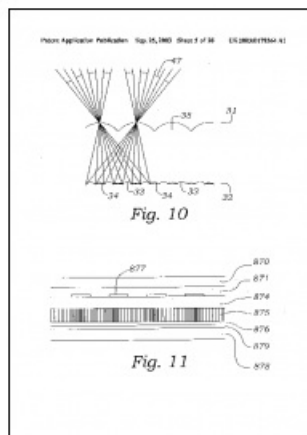
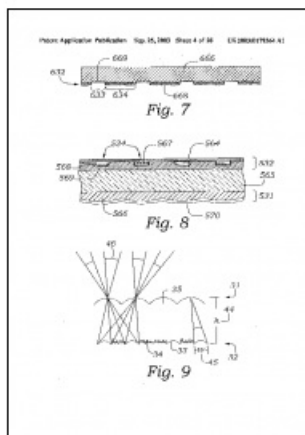
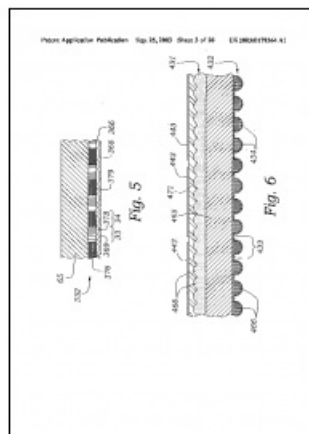
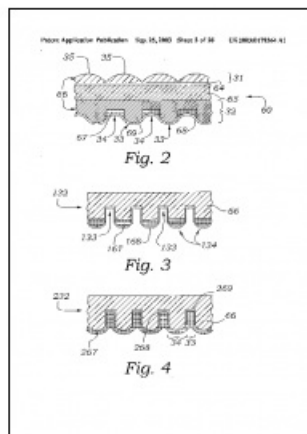
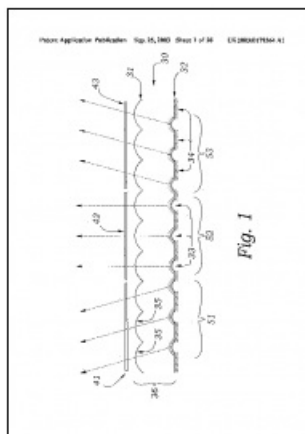
Probable Assignee:
NANOVENTIONS INC

Assignee(s):(std):

HURT MARK J ; KNOTTS MICHAEL E
; STEENBLIK RICHARD A ;
NANOVENTIONS INC

Assignee(s):

PRINTPACK ILLINOIS INC ; WELLS
FARGO BANK NATIONAL
ASSOCIATION ; WELLS FARGO
BANK NATIONAL ASSOCIATION
ADMINISTRATI ; WELLS FARGO
BANK NATIONAL ASSOCIATION
ADMINISTRATIVE AGENT AS ;
WILMINGTON TRUST NATIONAL
ASSOCIATION ADMINISTRATIVE
AGENT AS ; NANOVENTIONS
HOLDINGS LLC ; JPMORGAN CHASE
BANK NA ADMINISTRATIVE AGENT
AS



22 more images available

Title:

METHOD AND INK SETS FOR MARKING AND AUTHENTICATING ARTICLES

Abstract:

Source: US2006017957A The invention discloses a method for marking and authenticating a security article, such as a banknote, a document, a ticket, a foil, a thread, a label, a card, or a commercial good, so as to provide for an easy authentication of said article by a machine, such as a currency acceptor, a ticket validator, or a hand-held authentication device. According to the disclosed method, the security article carries a marking in the form of a user-defined design, wherein said marking comprises dyes or pigments belonging to an extended, or hyperchromic color space which is not ...

Probable Assignee:

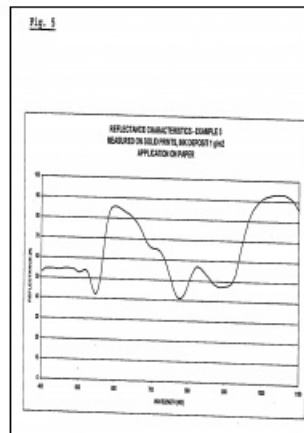
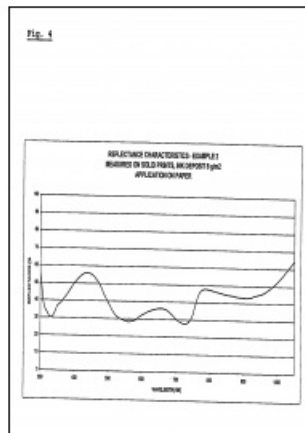
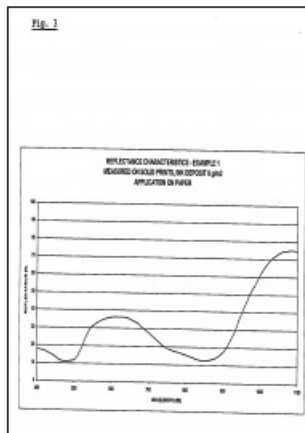
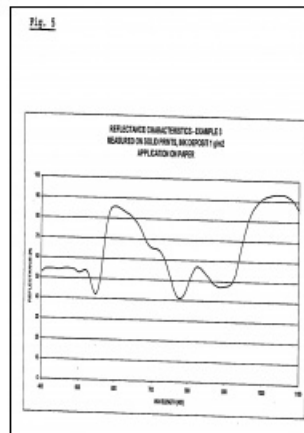
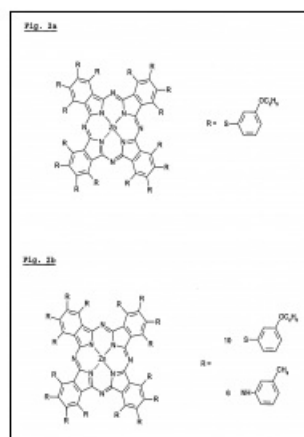
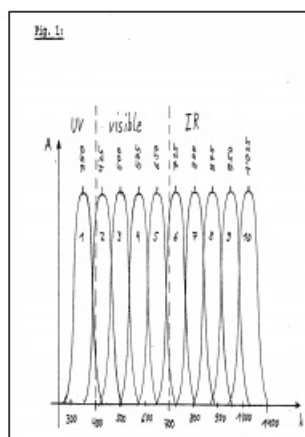
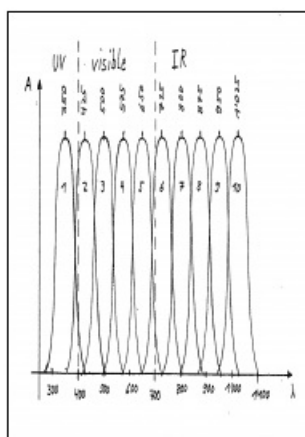
SICPA HOLDING SA

Assignee(s):(std):

BEND KURZMANN MATHIAS
PIEROTH ; DEGOTT PIERRE ;
DESPLAND CLAUDE ALAIN ;
MUELLER EDGAR ; MULLER EDGAR ;
SICPA HOLDING SA ; SICPA
HOLDING S A ; NOMA HOLDING S A

Assignee(s):

SIKPA KHOLDING S A ; SIKPA
KHOLDING SA ; NOMA HOLDING
SADOMAIN DE BOUGYC/O
PHILIPPE AMON1170AUBONNECH ;
SICPA HOLDING SAAVENUE DE
FLORISSANT 41CH-1008PRILLYCH ;
SICPA HOLDING SAAVENUE DE
FLORISSANT 41SUITE, 3100CH-
1008PRILLYCH ; SICPA SA ; NOMA
HOLDING SA



1 more images available

Title:
PAPER-OR CARDBOARD-BASED
SECURITY PRODUCT

Abstract:

Source: US2008102257A A paper-or cardboard-based security product and a method of manufacturing it. The product comprises a paper or a cardboard which is equipped with an identifiable security symbol. According to the present invention, the security symbol comprises a layer in the product, one which consists of a synthetic, electrically conductive polymer, the conductivity of which has been changed locally to form an electrically conductive or, alternatively, electrically non-conductive figure. Furthermore, a figure indicating the security symbol has been fitted on the surface of the paper ...

Probable Assignee:

ACREO AB

Assignee(s):(std):

BERGGREN MAGNUS ; ERIKSSON BO ; GADDA LARS ; REAL OYJ M ; GAEDDA LARS ; MUSTONEN TUOMAS ; M REAL OYJ ; KUGLER THOMAS ; KNUTHAMMAR BJORN ; REMONEN TOMMI ; NORBERG PETRONELLA ; ACREO AB ; AHO OUTI

Assignee(s):

AHO OUTI GAEDDA LARS
MUSTONEN TUOMAS REAL OYJ M ;
KNUTHAMMAR BJOERN

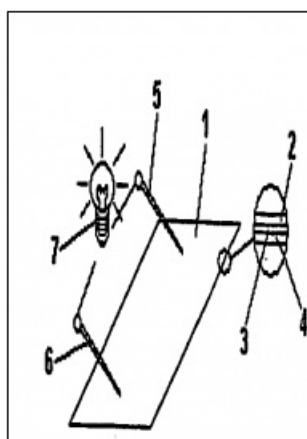


Fig. 1A

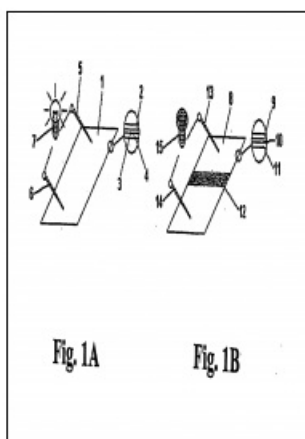


Fig. 1B

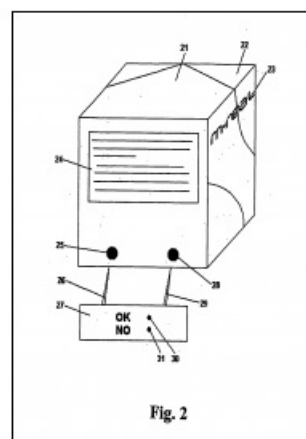


Fig. 2

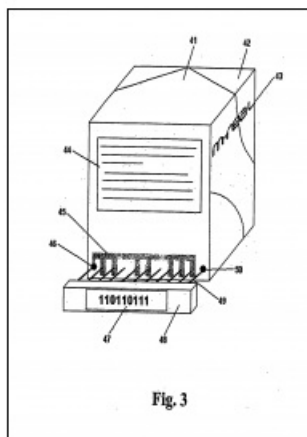


Fig. 3

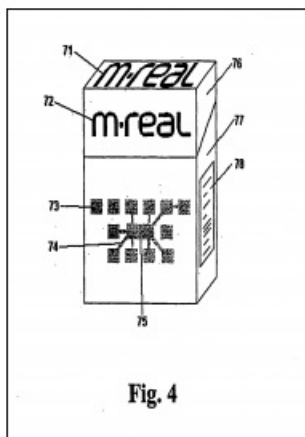


Fig. 4

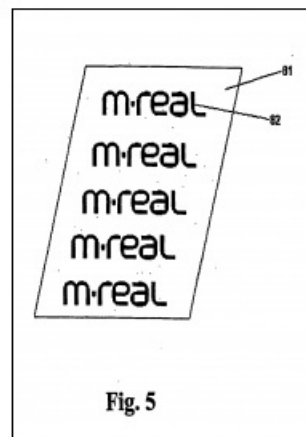


Fig. 5

Title:
MICRO-OPTIC SECURITY AND
IMAGE PRESENTATION SYSTEM

Abstract:

Source: US2005180020A 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

...

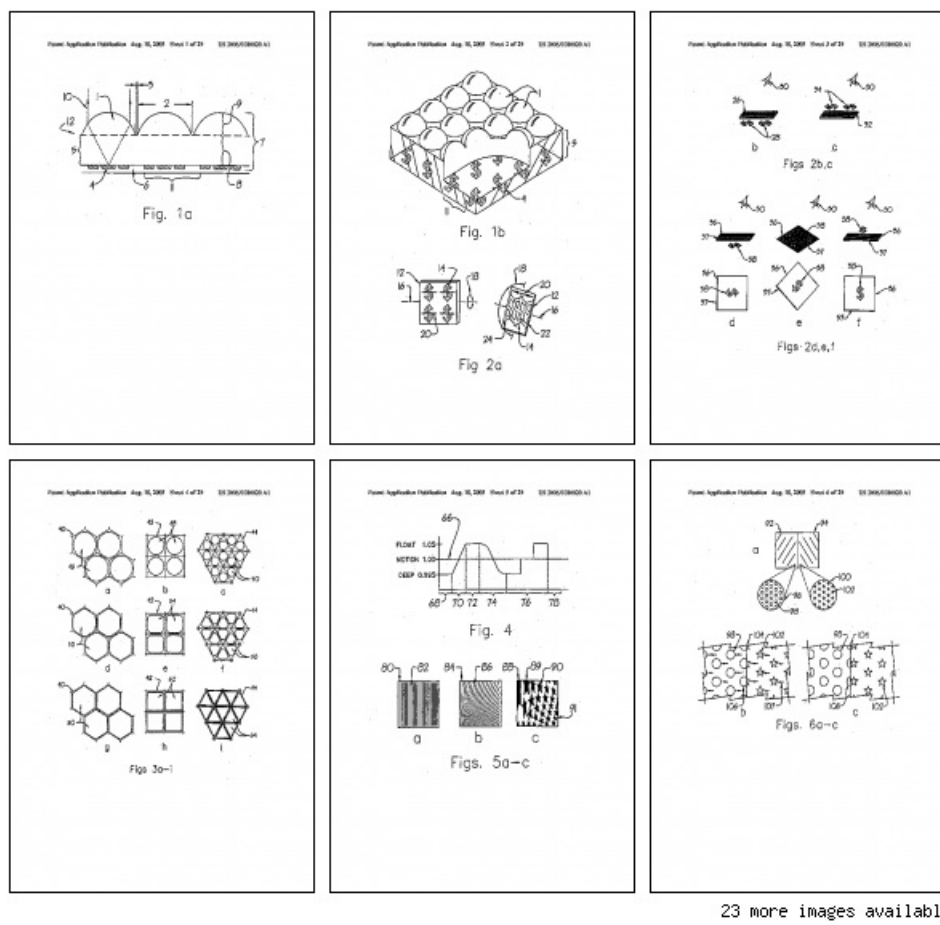
Probable Assignee:
VISUAL PHYSICS LLC

Assignee(s):(std):

HURT MARK J ; NANOVENTIONS INC ; STEENBLIK RICHARD A ; JORDAN GREGORY R ; NANOVENTIONS HOLDINGS LLC ; CAPE SAMUEL M ; VISUAL PHYSICS LLC ; VIZUAL FIZIKS LLS ; VIZUAL FIZ LLS

Assignee(s):

VISUAL PHYSICSLLC ; VISUAL PHYSICS LLC ALPHARETTA ; CRANE AND CO INC ; CRANE SECURITY TECHNOLOGIES INC ; HIGHBRIDGE PRINCIPAL STRATEGIES LLC COLLATERAL AGENT AS ; HURT MARK ; NANOVENTIONS INC Q ; TORONTO DOMINION (TEXAS) LLC ADMINISTRATIVE AGENT ; TORONTO DOMINION TEXAS LLC ADMINISTRATIVE AGENT AS ; TORONTO DOMINION (TEXAS) LLC ADMINISTRATIVE AGENT AS ; STEENBLIK RICHARD ; JORDAN GREGORY ; JPMORGAN CHASE BANK NA ADMINISTRATIVE AGENT AS ; VISUAL FIZIKS LLC



23 more images available

Title:
SECURITY SUBSTRATE
INCORPORATING ELONGATE
SECURITY ELEMENTS

Abstract:

Source: US2008122218A The present invention is concerned with providing security substrates, and documents made therefrom, such as banknotes, with features for visual inspection by members of the public. More specifically the invention relates to a novel security substrate containing at least two elongate security elements for the purposes of public and non-public verification. The security substrate comprises a substrate and at least two elongate security elements each having a width of less than or equal to 6 mm. The security elements are at least partially embedded within the substrate ...

Probable Assignee:

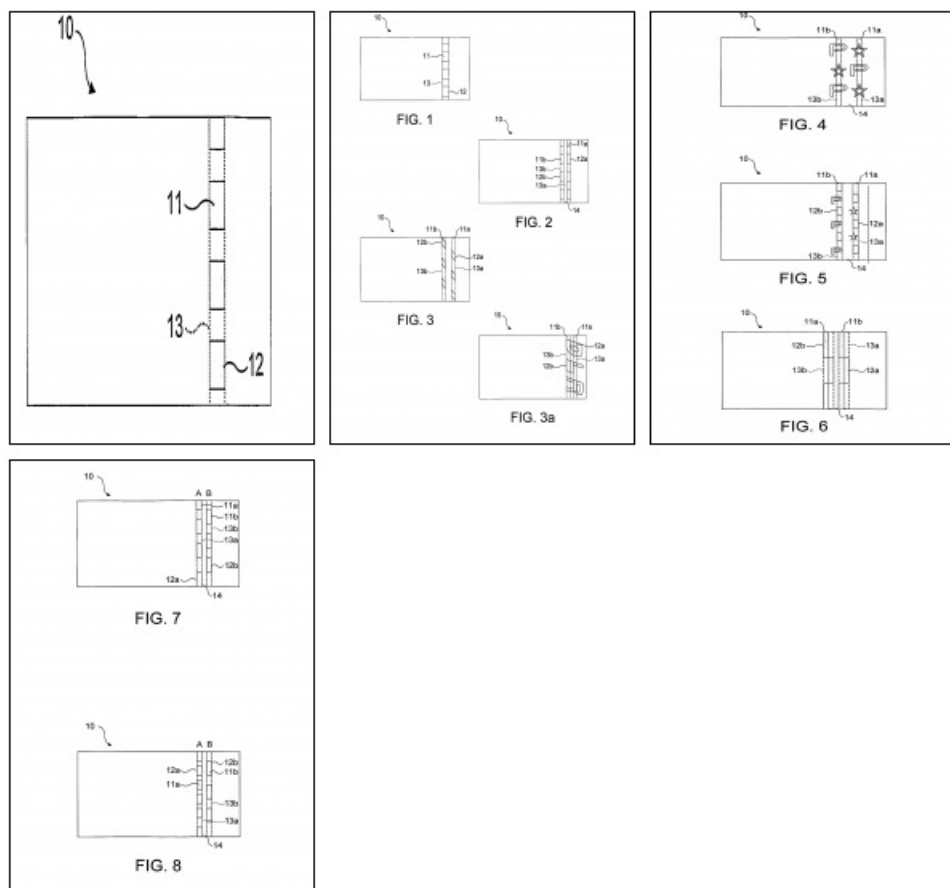
DE LA RUE INT LTD

Assignee(s):(std):

HENDERSON PETER MCLEAN ;
HOWLAND PAUL ; PAYNE GERALD
SIDNEY ; RUE DE INT LTD ; REID
DUNCAN HAMILTON

Assignee(s):

PORTALS DE LA RUE LTD ; LA RUE
INT DE LTD ; LA RUE
INTERNATIONAL DE LIMITED ; DE
LA RUE INT ; DE LA RUE INT LTD ;
DE LA RUE INTERNATIONAL
LIMITED



Title:

OBJECT OF VALUE COMPRISING A MOIRE PATTERN

Abstract:

Source: US2007177131A The invention concerns an object of value (15), for example a credit card, banknote or identity card. The object of value (15) has a carrier layer (1), at least one first layer (21) containing a moire pattern and at least one second layer (31, 33) containing a moire analyser for the moire pattern of the first layer (21). That second layer is arranged above or beneath the first layer in a fixed position relative to the first layer in such a way that the moire pattern of the first layer (21) and the moire analyser of the second layer (31, 33) are permanently optically ...

Probable Assignee:

OVD KINEGRAM AG

Assignee(s):(std):

HANSEN ACHIM ; OVD KINEGRAM AG ; OVD KINEGRAM AG ZUG ; OVD KINEGRAM ZUG AG

Assignee(s):

OVD KINEGRAM
AKTIENGESellschaft

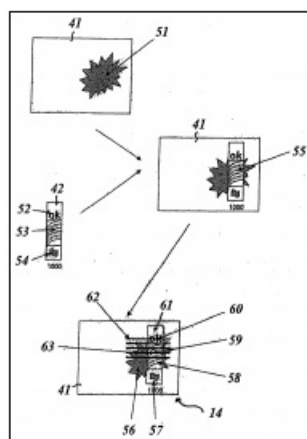


Fig. 1

Fig. 2

Fig. 3

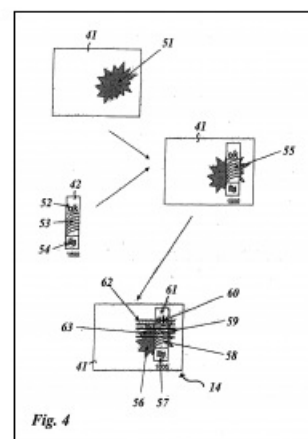


Fig. 4

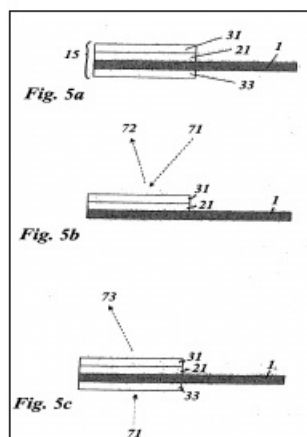


Fig. 5a

Fig. 5b

Fig. 5c

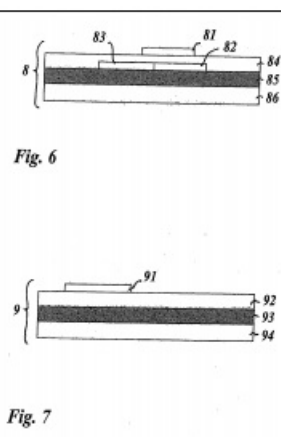


Fig. 6

Fig. 7

Title:
OPTICALLY VARIABLE DEVICES

Abstract:

Source: US2009034082A A security device comprises a substrate (1) having an array of microlenses (3) on one side and one or more corresponding arrays of microimages (4) on the other side. The microimages (4) are located at a distance from the microlenses (3) substantially equal to the focal length of the microlenses. The substrate (1) is sufficiently transparent to enable light to pass through the microlenses (3) so as to reach the microimages (4). Each microimage (4) is defined by an anti-reflection structure on the substrate (1) formed by a periodic array of identical structural elements, ...

Probable Assignee:

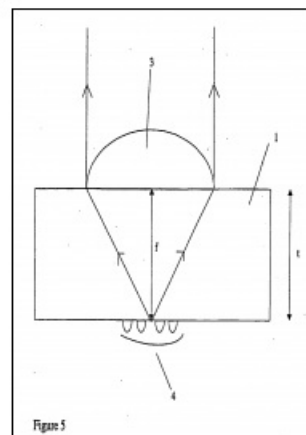
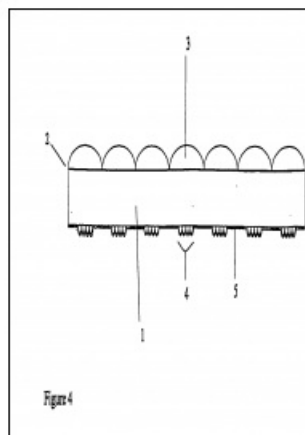
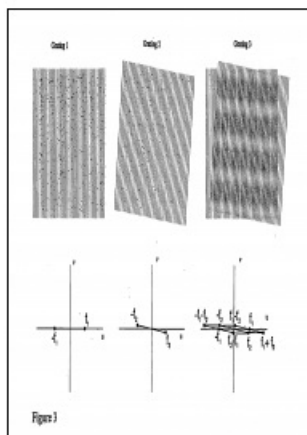
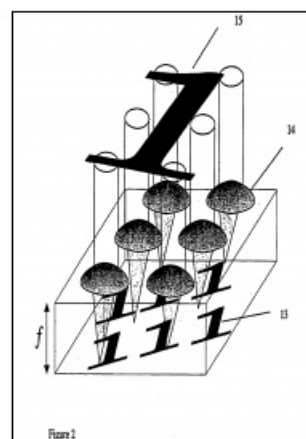
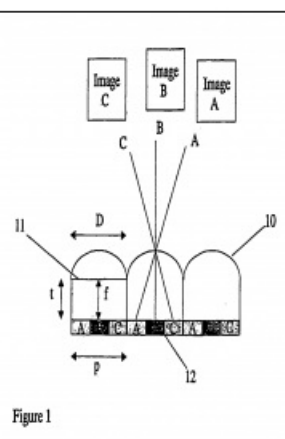
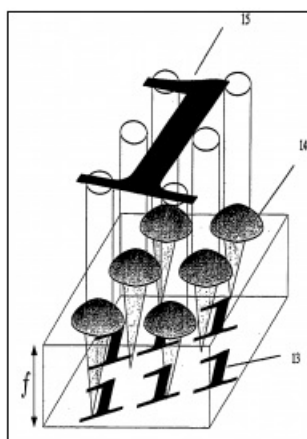
DE LA RUE INT LTD

Assignee(s):(std):

DE LA RUE INT LTD ; RUE DE INT LTD ; EASTELL CHRISTOPHER JOHN ; ISHERWOOD ROLAND ; HOLMES BRIAN WILLIAM ; COMMANDER LAWRENCE GEORGE

Assignee(s):

DE LA RUE INT ; LA RUE INTERNATIONAL DE LIMITED ; DE LA RUE INT LTD BASINGSTOKE ; DE LA RUE INTERNATIONAL LIMITED ; DE LA RUE INTERNATIONAL LTD ; LA RUE INT DE LTD



37 more images available

Title:

TAMPER-INDICATING PRINTABLE SHEET FOR SECURING DOCUMENTS OF VALUE AND METHODS OF MAKING THE SAME

Abstract:

Source: US2006029753A A tamper-indicating printable sheet. A preferred embodiment of the invention provides a tamper-indicating printable sheet comprising a retroreflective layer comprising a plurality of microbeads partially embedded in an inkjet receptive beadbond layer; and a reflector layer between one of the microbeads and the inkjet receptive beadbond layer. The present invention provides a method of making a tamper-indicating printable sheet.

Probable Assignee:

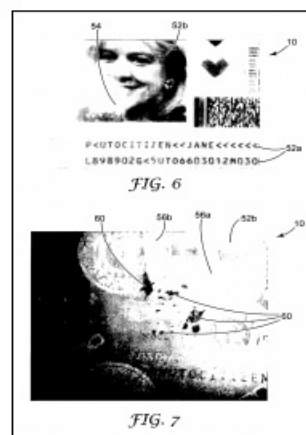
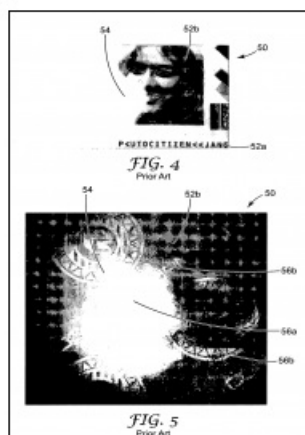
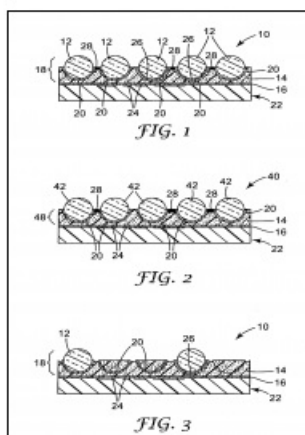
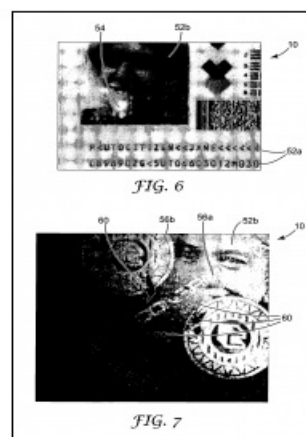
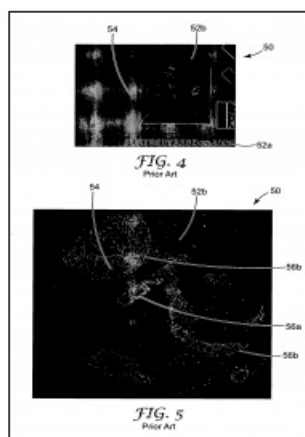
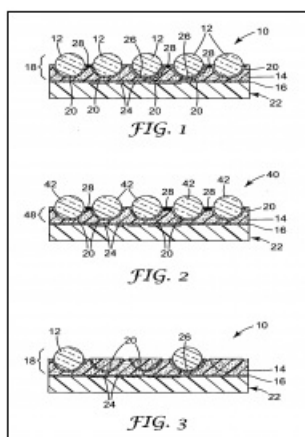
GEMALTO SA

Assignee(s):(std):

3M INNOVATIVE PROPERTIES CO ;
3M INNOVATIVE PROPERTIES
COMPANY ; DETJEN MATHIAS ;
DUNNE BRIAN W ; KUO RICHARD J ;
MARECKI PAUL E ; NIGATU
TADESSE G ; WHITE KENNETH M

Assignee(s):

GEMALTO SA



Title:
IDENTIFICATION DOCUMENT WITH
LENTICULAR WATERMARK

Abstract:
Source: US2006197337A An identification document and method of making such a document includes a transparent window which incorporates micro printing and lenticular technology to record document bearer specific information on a microscopic and macroscopic level. A window is punched into an opaque layer, respective laser engravable synthetic transparent layers are laminated to opposing sides of the opaque layer, and respective protective synthetic transparent layers are laminated to the outer sides of the two laser engravable synthetic transparent layers. A lenticular array is then formed on ...

Probable Assignee:
CANADIAN BANK NOTE CO LTD

Assignee(s):(std):
CANADIAN BANK NOTE CO LTD

Assignee(s):
CANADIAN BANK NOTE COMPANY LIMITED ; CANADIAN BANK NOTE COMPANY LTD ; CRUIKSHANK DAVID NC ; MERRY TREVOR ; BUZULOIU ILEANA

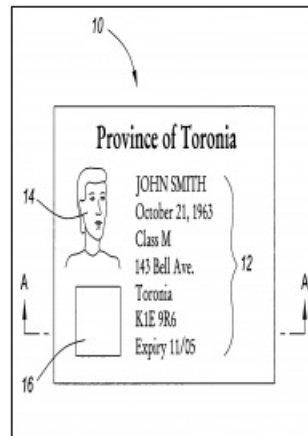


FIG. 1

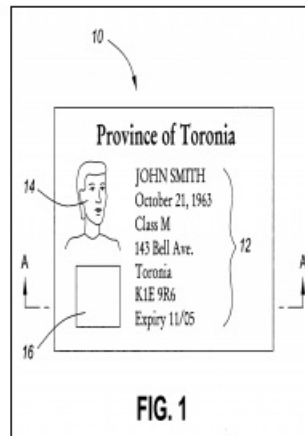


FIG. 2

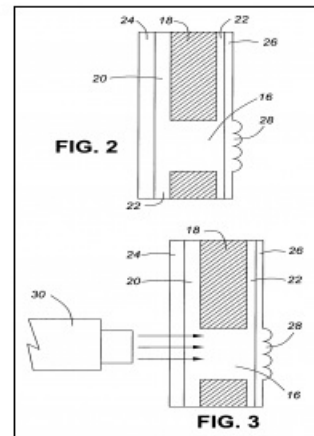


FIG. 3

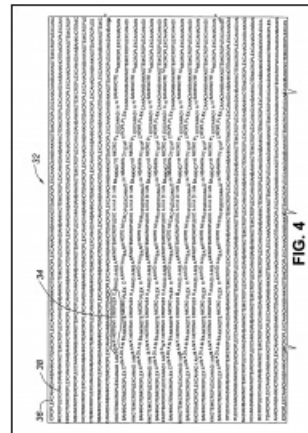


FIG. 4

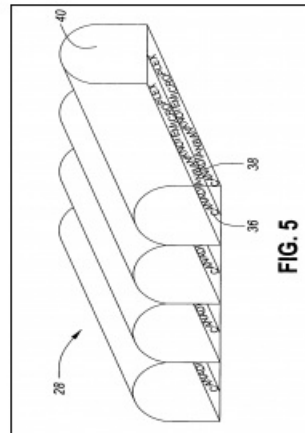


FIG. 5

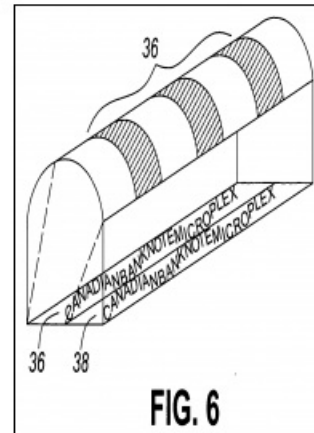


FIG. 6

Title:
METHODS OF FORMING SHEETING WITH A COMPOSITE IMAGE THAT FLOATS AND SHEETING WITH A COMPOSITE IMAGE THAT FLOATS

Abstract:

Source: US2007081254A Microlens sheetings with composite images are disclosed, in which the composite image floats above or below the sheeting, or both. The composite image may be two-dimensional or three-dimensional. Methods for providing such an imaged sheeting are also disclosed.

Probable Assignee:

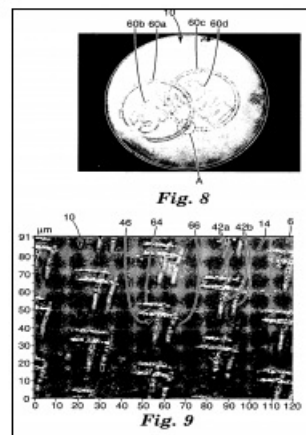
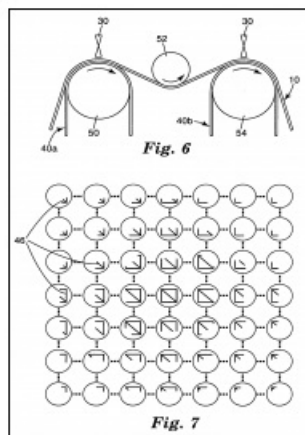
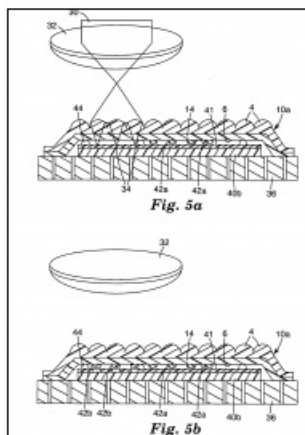
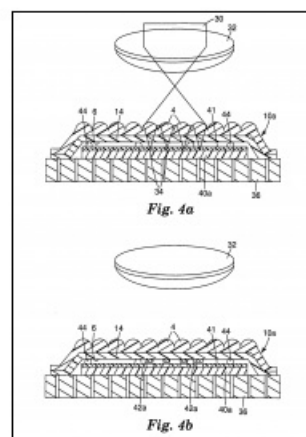
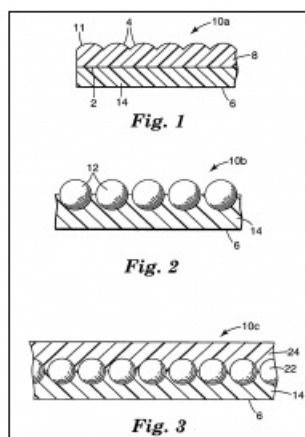
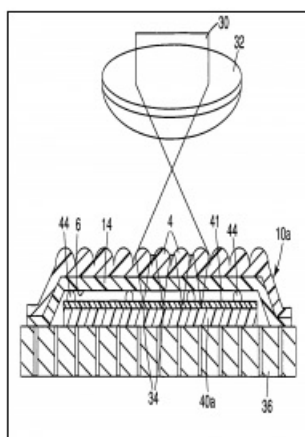
3M CO

Assignee(s):(std):

3M CO ; 3M INNOVATIVE
PROPERTIES CO

Assignee(s):

3M INNOVATIVE PROPERTIES
COMPANY ; DOLEZAL MICHAEL W ;
DOWER WILLIAM V ; ENDLE JAMES P
; KRASA ROBERT T



7 more images available

Title:

PORTABLE DATA STORAGE MEDIUM

Abstract:

Source: US2010007130A The invention relates to a portable data carrier (1) having a carrier (2) which has a first graphical representation (3) and a second graphical representation (4). The second graphical representation (4) is better protected against tampering than the first graphical representation (3). In addition, the second graphical representation (4) is configured as a reference for detecting tampering with the first graphical representation (3). The invention is characterized by the fact that only a partial area (5) of the first graphical representation (3) laterally overlaps with ...

Probable Assignee:

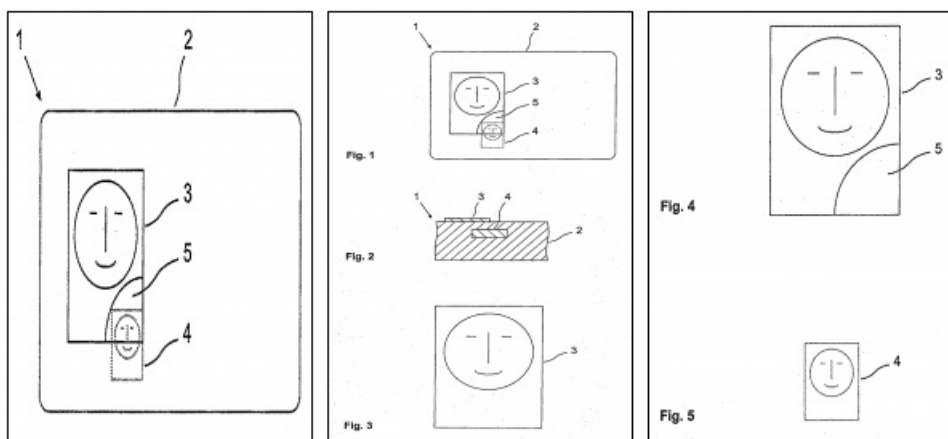
GIESECKE AND DEVRIENT GMBH

Assignee(s):(std):

GIESECKE AND DEVRIENT GMBH ;
KOMAREK PEER ALEXANDER

Assignee(s):

GIESECKE AND DEVRIENT MOBILE
SECURITY GMBH



Title:

METHODS OF FORMING SHEETING WITH COMPOSITE IMAGES THAT FLOAT AND SHEETING WITH COMPOSITE IMAGES THAT FLOAT

Abstract:

Source: US2010103528A Microlens sheetings with different types of composite images are disclosed, in which the composite image floats above, in, or below the sheeting, or some combination. One type of composite image may be viewable to the unaided eye or an observer and another type of composite image is viewable only to the aided eye of an observer. Methods for providing such an imaged sheeting are also disclosed.

Probable Assignee:

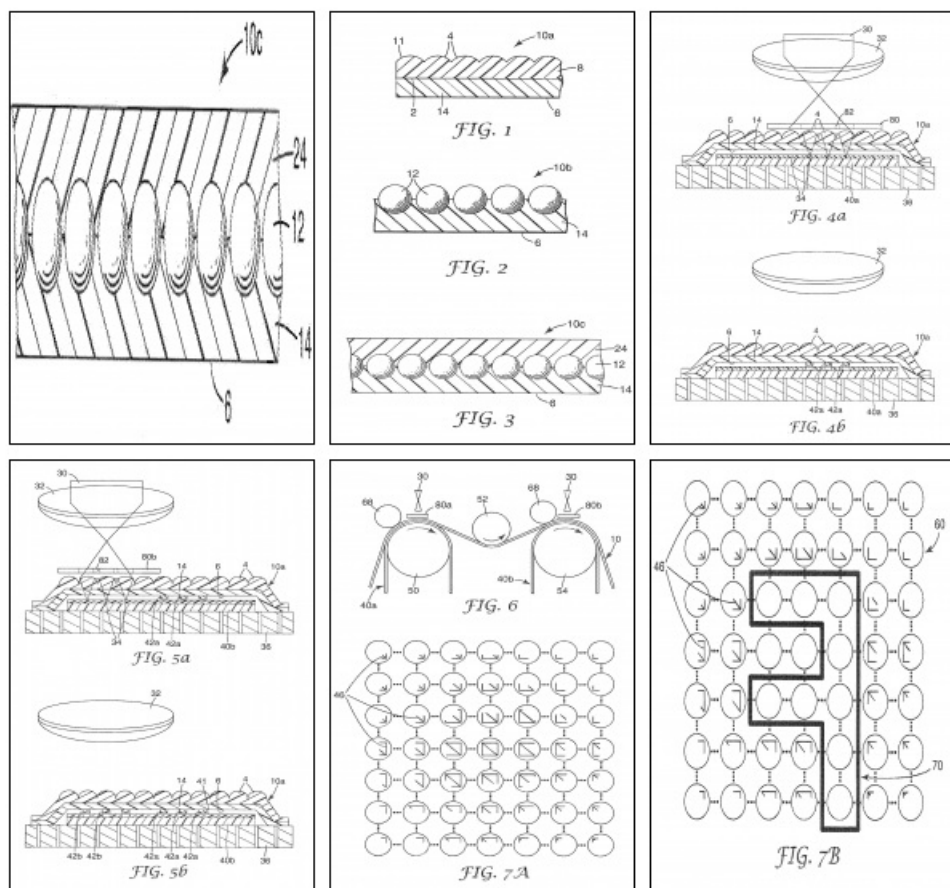
3M CO

Assignee(s):(std):

3M CO ; 3M INNOVATION PROPERTIES CO ; 3M INNOVATIVE PROPERTIES CO ; LORIMOR LYNN E ; ENDLE JAMES P ; KRAMLICH DAVID C

Assignee(s):

3M INNOVATIVE PROPERTIES COMPANY



19 more images available

Title:
SECURITY DOCUMENT AND
METHODS OF PRODUCING IT

Abstract:

Source: US2011156382A A security document having in order a) a first laser markable layer, present as a self-supporting layer or as a layer on a support; b) at least one polymeric overlay; and c) a second laser markable layer wherein the second laser markable layer exhibits a higher laser sensitivity than a non-laser marked area of the first laser markable layer but produces a smaller maximum optical density or a smaller gloss on laser marking. Methods for manufacturing the security document are also disclosed.

Probable Assignee:

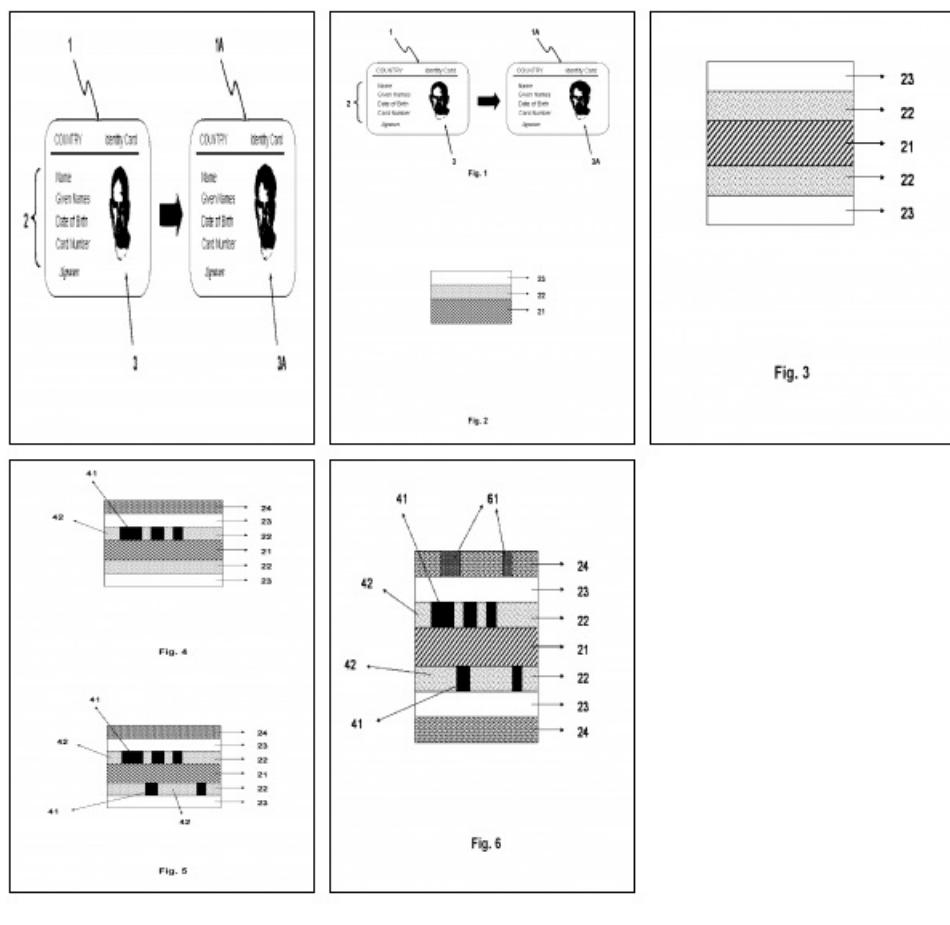
AGFA GEVAERT NV

Assignee(s):(std):

AGFA GEVAERT NV ; UYTENDAELE
CARLO

Assignee(s):

AGFA GEVAERT N V



Title:
IDENTIFICATION DOCUMENT WITH
AN IMPROVED ANTI-
COUNTERFEITING ELEMENT

Abstract:

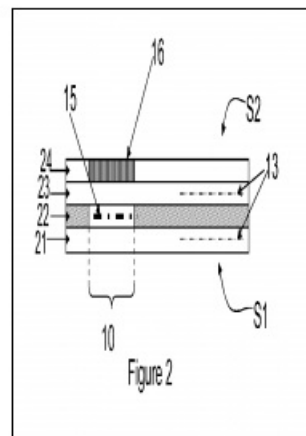
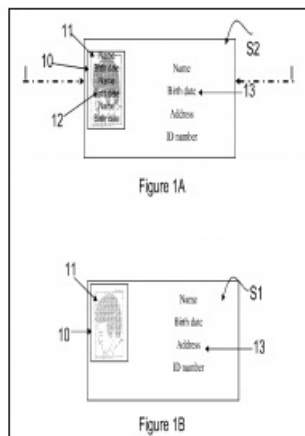
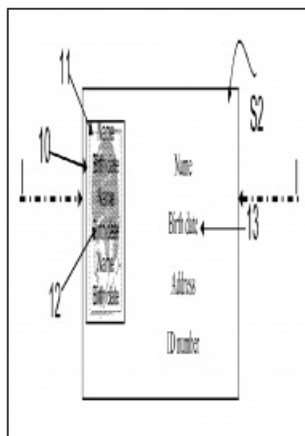
Source: US2011298205A An identification document including a translucent portion is provided. The translucent portion has a first side and a second side, and includes a first personalized information. The first personalized information includes a second personalized information which is hidden in the first personalized information when viewed from the first side of the translucent portion. A filtering device is attached to or formed in the second side of the translucent portion. The filtering device is configured to reveal the hidden second personalized information. The second personalized ...

Probable Assignee:

GEMALTO OY

Assignee(s):(std):

GEMALTO OY ; POHJOLA TEEMU



Title:

IDENTIFICATION DOCUMENT
HAVING A PERSONALIZED VISUAL
IDENTIFIER AND METHOD FOR
PRODUCTION THEREOF

Abstract:

Source: US2012126525A An identification document (10) comprises a personalized first visual marking (14) that is arranged in a first region (12) of the identification document (10), the first region (12) being configured in such a way that, upon laser irradiation of the same, local darkenings of the optical impression of the identification document (10) are produced, resulting from material transformations. The identification document (10) further exhibits a second visual marking (26) that produces the optical impression of a copy of the first visual marking (14) and is arranged in a second ...

Probable Assignee:

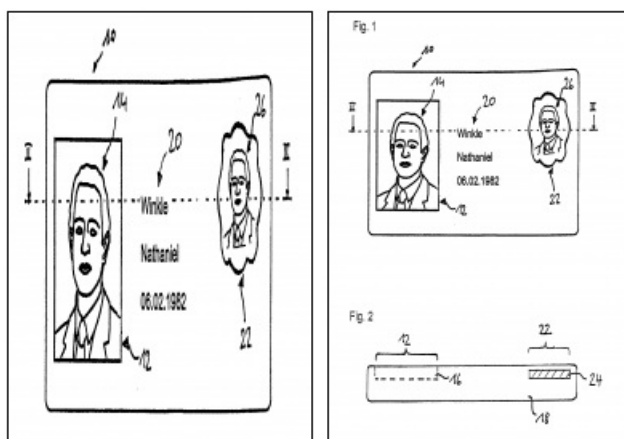
GIESECKE AND DEVRIENT MOBILE
SECURITY GMBH

Assignee(s):(std):

ASSFALG ALFONS ; DOERFLER
WALTER ; DORFLER WALTER ;
GIESECKE AND DEVRIENT GMBH ;
GIESECKE DEVRIENT MOBILE
SECURITY GMBH

Assignee(s):

GIESECKE AND DEVRIENT MOBILE
SECURITY GMBH



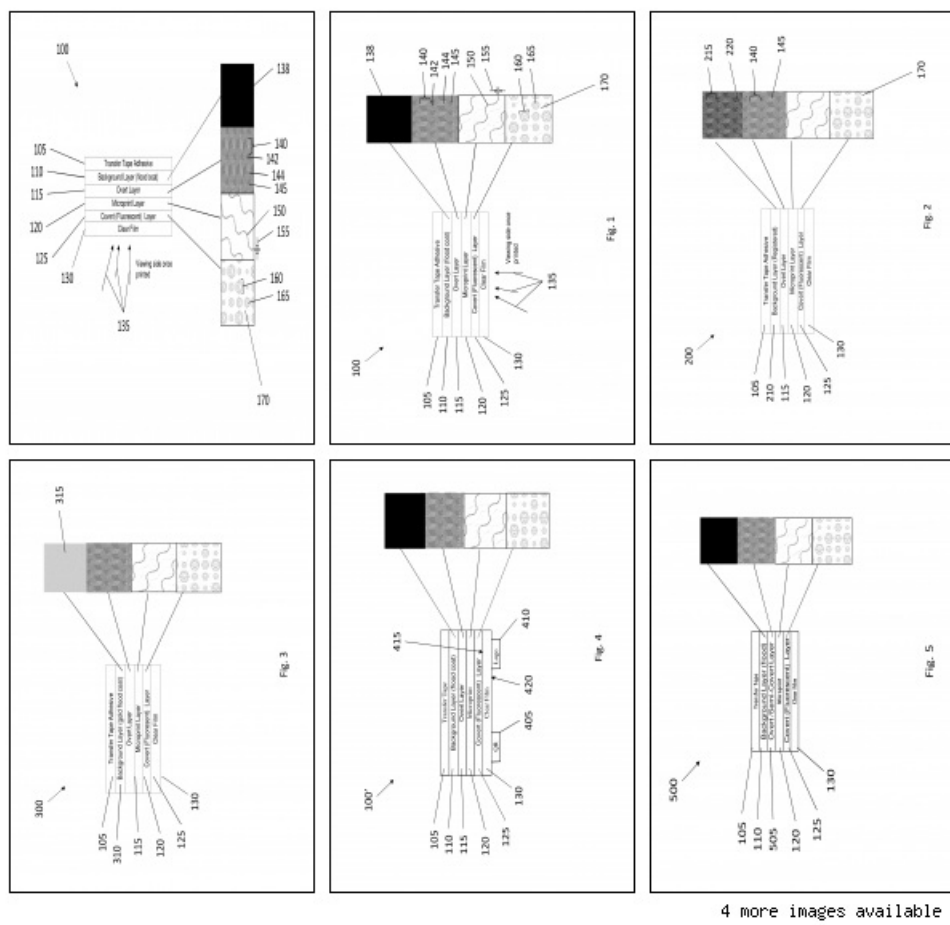
Title:
SECURITY LAMINATE

Abstract:

Source: US2014339298A A laminate having a multilayer structure includes a clear film layer, a transfer tape adhesive layer, a microprint text layer, at least one layer with repeating patterns having colorshift properties, and a fluorescent layer with repeating patterns having colorshift properties. The microprint layer, the at least one layer with repeating second patterns, and the fluorescent layer with repeating second patterns are arranged between the clear film layer and the transfer tape adhesive layer.

Probable Assignee:
SICPA HOLDING SA

Assignee(s):(std):
SICPA HOLDING SA



Title:

MOIRE MAGNIFICATION SYSTEMS

Abstract:

Source: US2014367957A Moire-type magnification systems are disclosed. The moire magnification systems can comprise a surface and a periodic array of image relief microstructures having a periodic surface curvature disposed on or within the surface. The image relief microstructures can have a first image repeat period along a first image reference axis within the array, and the periodic surface curvature can have a first curvature repeat period along a first curvature reference axis within the array. Transmission of light through the array, reflection of light from the array, or a combination ...

Probable Assignee:

AD LUCEM CORP

Assignee(s):(std):

AD LUCEM CORP ; VISUAL PHYSICS LLC

Assignee(s):

NANOVENTIONS HOLDINGS LLC ;
 NANOVENTIONS INC ; CRANE AND
 CO INC ; CRANE SECURITY
 TECHNOLOGIES INC ; JPMORGAN
 CHASE BANK NA ADMINISTRATIVE
 AGENT AS

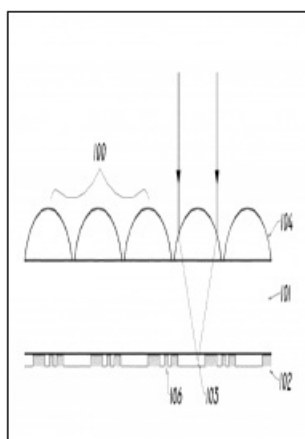


FIGURE 1

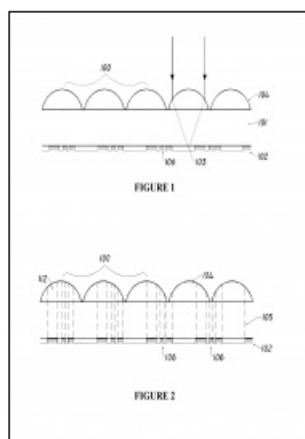


FIGURE 2

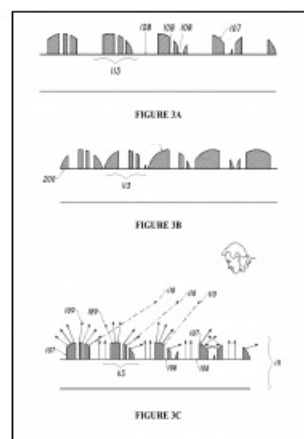


FIGURE 3A

FIGURE 3B

FIGURE 3C

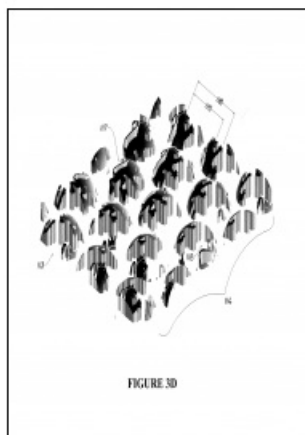


FIGURE 3D

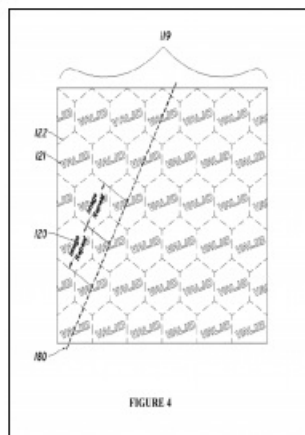


FIGURE 4

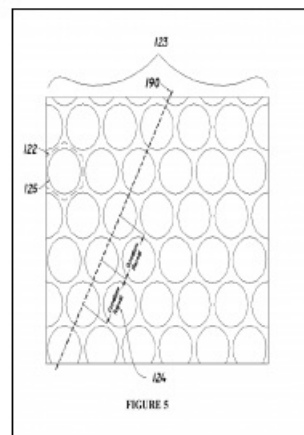


FIGURE 5

11 more images available

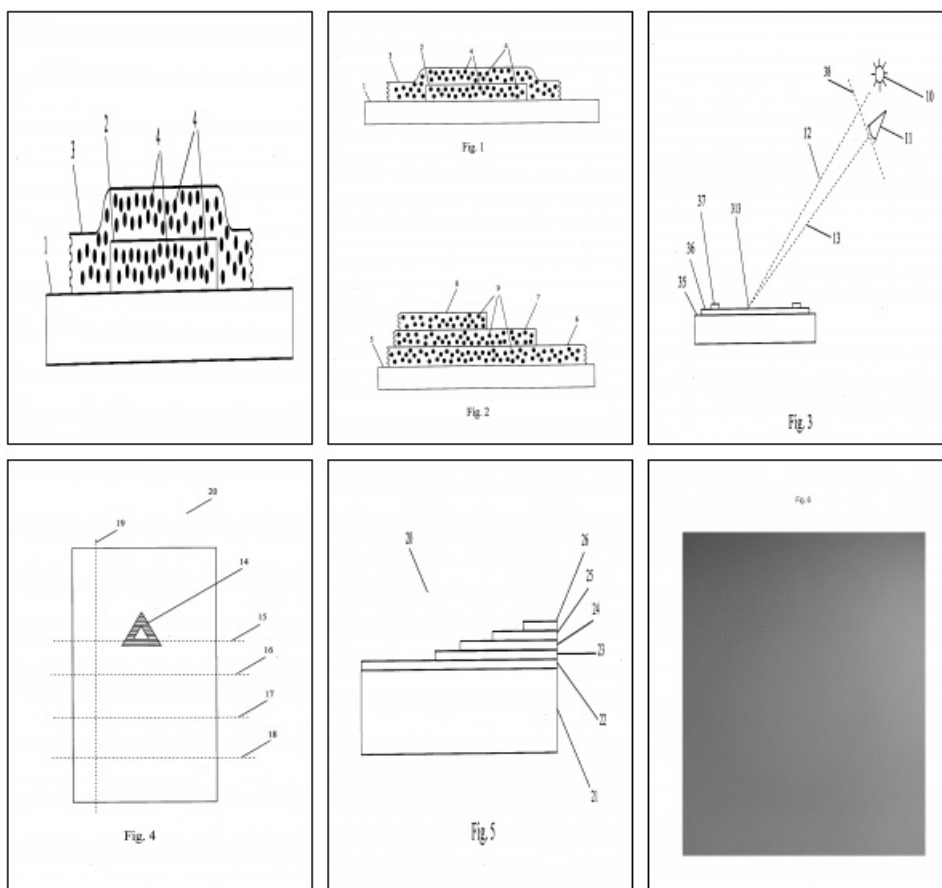
Title:
OPTICAL EFFECT COATING

Abstract:
Source: US2016216415A Provided is an article having a condition-dependent image, said article comprising (a) a substrate having a surface, (b) upon the surface of the substrate, one or more layers of a clear coating comprising a plurality of beads. Also provided are a method of producing such an article and a method of observing the image on such an article.

Probable Assignee:
ROHM AND HAAS CO

Assignee(s):(std):
ROHM AND HAAS

Assignee(s):
ROHM AND HAAS CO



5 more images available

Title:

AN APERIODIC MOIRE SECURITY
ELEMENT AND METHOD FOR
PRODUCTION THEREOF

Abstract:

Source: US2018117948A A moire magnification device for authenticating security articles, the moire magnification device comprising: an array of micro focusing elements; and an array of micro images; wherein the array of micro focusing elements and the array of micro images are correspondingly aperiodic such that the micro focusing elements generate moire magnifications of the micro image when viewing the device at predetermined viewing angles. A device such as this raises the complexity and difficulty of the task facing would-be counterfeiters. The use of an aperiodic micro focusing element ...

Probable Assignee:

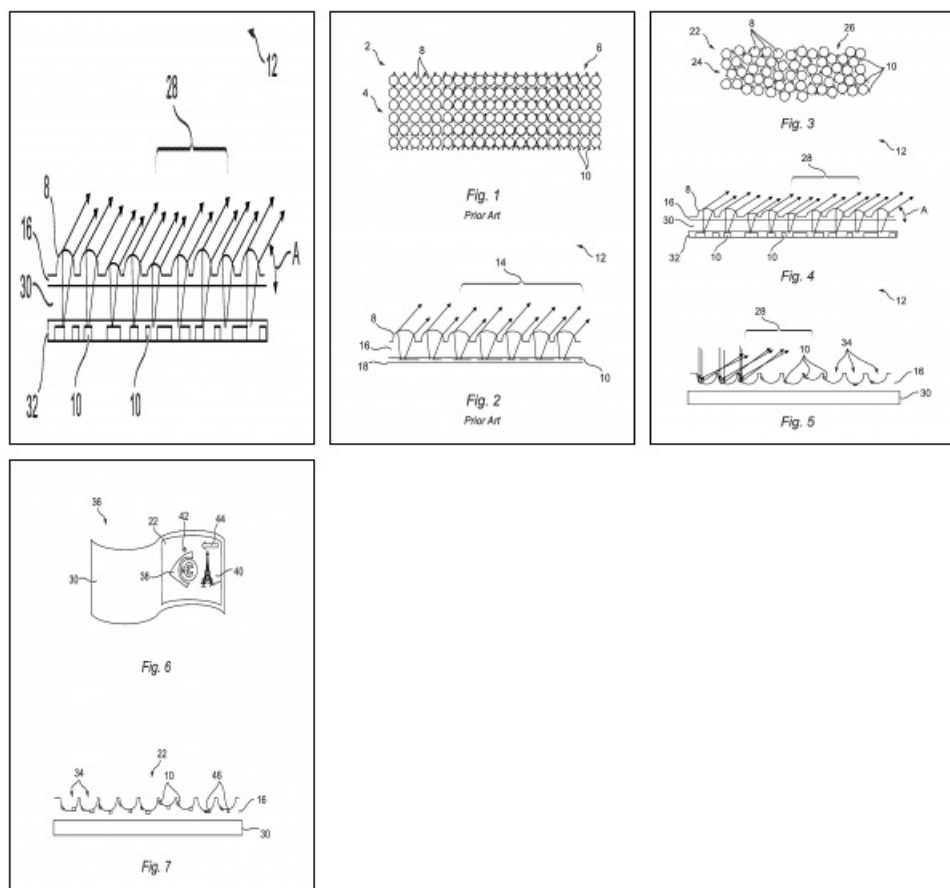
INNOVIA SECURITY PTY LTD

Assignee(s):(std):

CCL SECURE PTY LTD ; INNOVIA
SECURITY PTY LTD

Assignee(s):

POWER GARY FAIRLESS



Title:

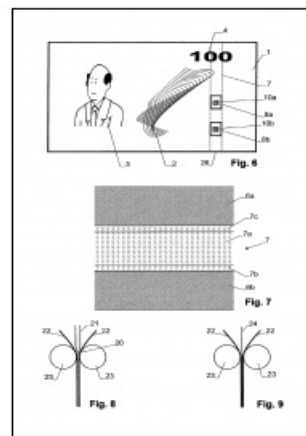
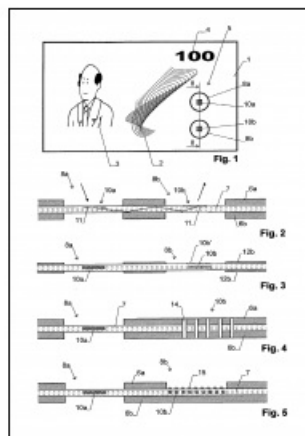
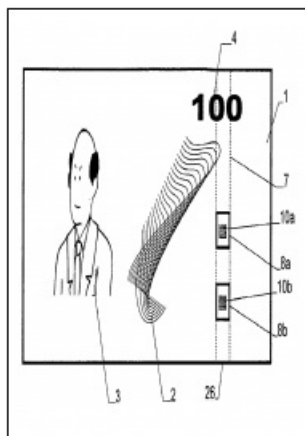
SECURITY SYSTEM WITH OPTICAL WAVEGUIDE

Abstract:

Source: US2015145239A A security document comprises a substrate (1) and an optical waveguide (7). Couplers (10a, 10b) are provided in the waveguide (7) for coupling light into and out of the waveguide. The couplers (10a, 10b) can e.g. by gratings, scattering objects, holograms, luminescent dyes or perforations. The authenticity of the document can be verified using methods based on the properties of the waveguide.

Probable Assignee:

ORELL FUSSLI SICHERHEITSDRUCK AG

Assignee(s):(std):ORELL FUESSLI
SICHERHEITSDRUCK AG ; ORELL
FUSSLI SICHERHEITSDRUCK AG

Title:

SECURITY SHEET OR DOCUMENT
HAVING ONE OR MORE ENHANCED
WATERMARKS

Abstract:

Source: US2015152602A The invention generally relates to a security sheet or document having one or more enhanced watermarks. In one exemplary embodiment, the inventive security sheet or document is a single-ply paper that is made up of a paper layer including one or more watermarks, and a micro-optic security device (e.g., a patch or thread) that at least partially covers an upper or face portion of the watermark(s). The overlying patch or thread increases the durability of the watermark(s), thereby allowing for the watermark(s) as well as reduced fiber density areas therein to be made ...

Probable Assignee:

CRANE AND CO INC

Assignee(s):(std):

CRANE AND CO INC ; CRANE AB ;
CRANE SECURITY TECHNOLOGIES
INC ; CRANE SECURITY TECH INC

Assignee(s):

CRANE AND CO INC BOSTON ;
CRANE SECURITY TECHNOLOGIES
INC NASHUA ; DARROCH MICHAEL ;
MORCK HAMILTON KARIN ; PRETT
GILES D ; JAIN MANISH ;
JPMORGAN CHASE BANK NA
ADMINISTRATIVE AGENT AS ;
VISUAL PHYSICS LLC ; CRANE AND
CO ; COTE PAUL F ; BLAKE WILLIAM
DECEASED ; BOODY JEFFREY ;
BRIGHAM KRAIG M ; CALLAHAN
JAMES

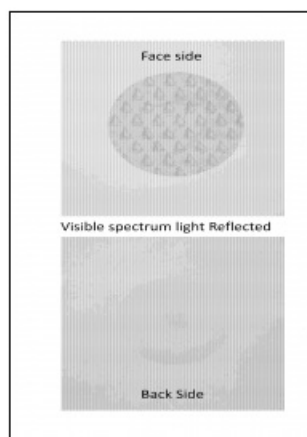


FIG. 1

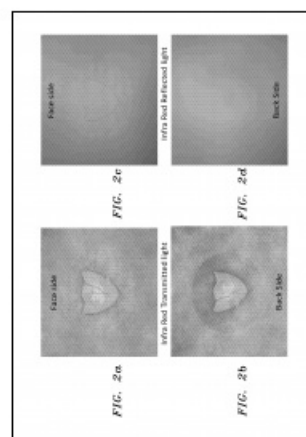


FIG. 2a

FIG. 2b

FIG. 2c

FIG. 2d

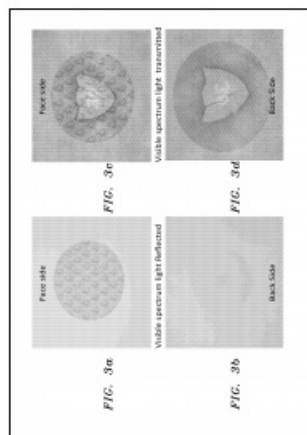


FIG. 3a

FIG. 3b

FIG. 3c

FIG. 3d

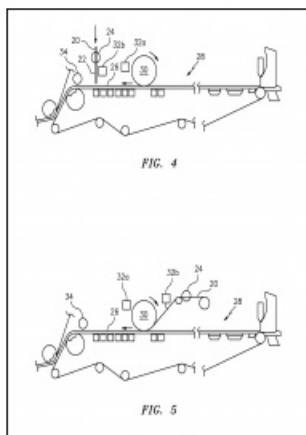


FIG. 5

FIG. 4

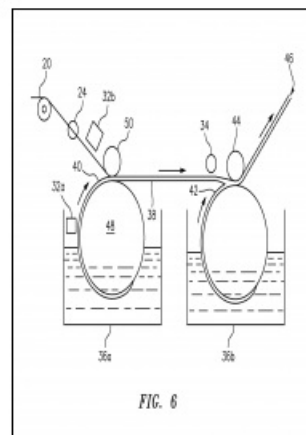


FIG. 6

5 more images available

Title:

SICHERHEITSELEMENT ZUR
DARSTELLUNG ZUMINDEST EINER
OPTISCH VARIABLEN INFORMATION
SECURITY ELEMENT FOR
DISPLAYING AT LEAST ONE
OPTICALLY VARIABLE ITEM OF
INFORMATION
ELEMENT DE SECURITE DESTINE A
REPRESENTER AU MOINS UNE
INFORMATION VARIABLE
OPTIQUEMENT

Abstract:

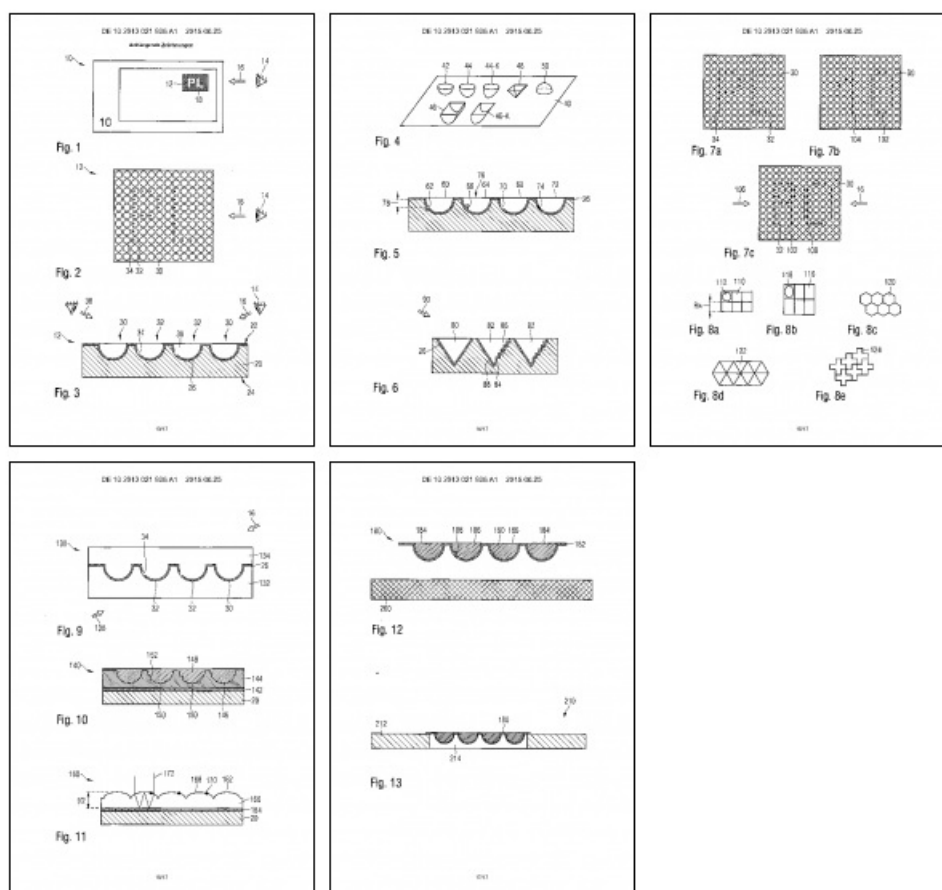
Source: EP2889152A1 Die Erfindung betrifft ein Sicherheitselement (12) zur Darstellung zumindest einer optisch variablen Information, mit einem Trägersubstrat (20) mit gegenüberliegenden ersten und zweiten Hauptflächen (22, 24), einer auf der ersten Hauptfläche angeordneten Reflexionsschicht (26), und einem in oder über der Reflexionsschicht (26) vorliegenden Raster optisch wirksamer Elemente, die durch Prägeelemente (30, 32) identischer Grundform gebildet sind, wobei das Raster optisch wirksamer Elemente zumindest eine, bei gerichteter Beleuchtung ohne Hilfsmittel in Reflexion ...

Probable Assignee:

GIESECKE AND DEVRIENT GMBH

Assignee(s):(std):

GIESECKE AND DEVRIENT GMBH



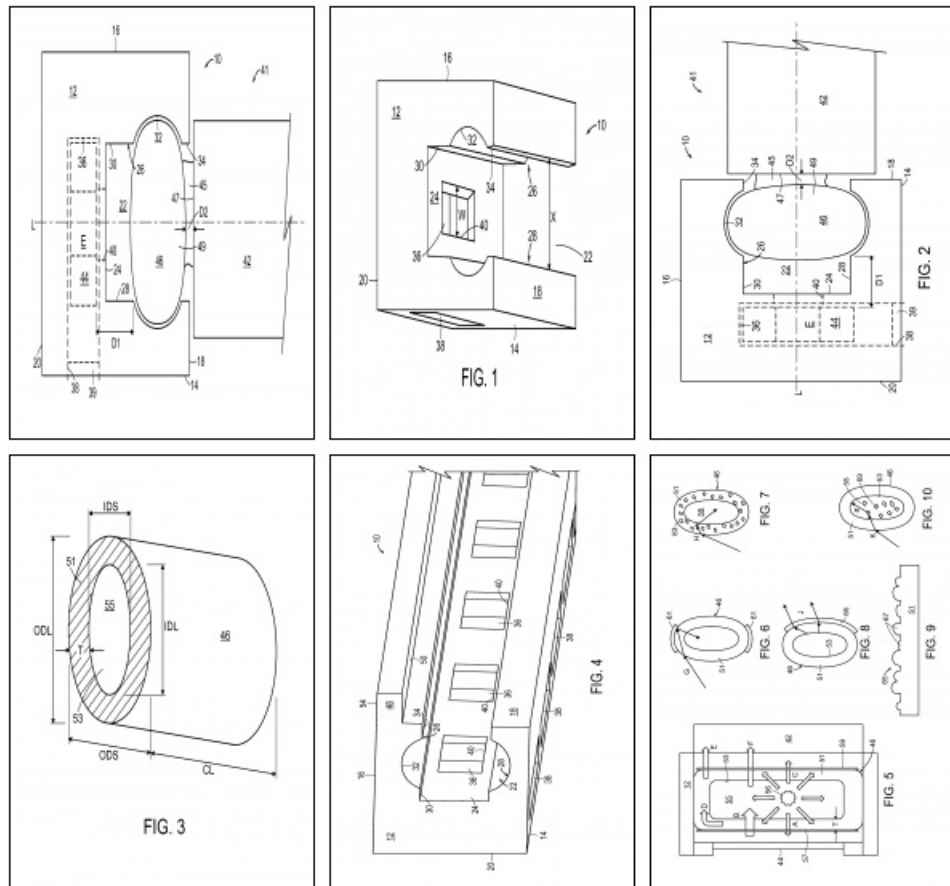
Title:
LIGHT MIXING CHAMBER FOR USE
WITH COLOR CONVERTING
MATERIAL AND LIGHT GUIDE PLATE
AND ASSEMBLY

Abstract:
Source: US2015362654A A light mixing chamber of a backlight includes a housing having a channel and a chamber exposed to the channel, an LED positioned within the chamber, and a capillary containing quantum dots positioned in the channel. A light guide plate is positioned adjacent the housing and adjacent the capillary. Relative dimensions of the elements of the light mixing chamber, as well as features added to the elements of the light mixing chamber, can be varied to balance efficiency and uniformity of light generated in the backlight.

Probable Assignee:
SAMSUNG ELECTRONICS CO LTD

Assignee(s):(std):
QD VISION INC ; SAMSUNG
ELECTRONICS CO LTD

Assignee(s):
SAMSUNG ELECTRONICS CO ;
CAPRICORN LIBRA INVESTMENT
GROUP LP



6 more images available

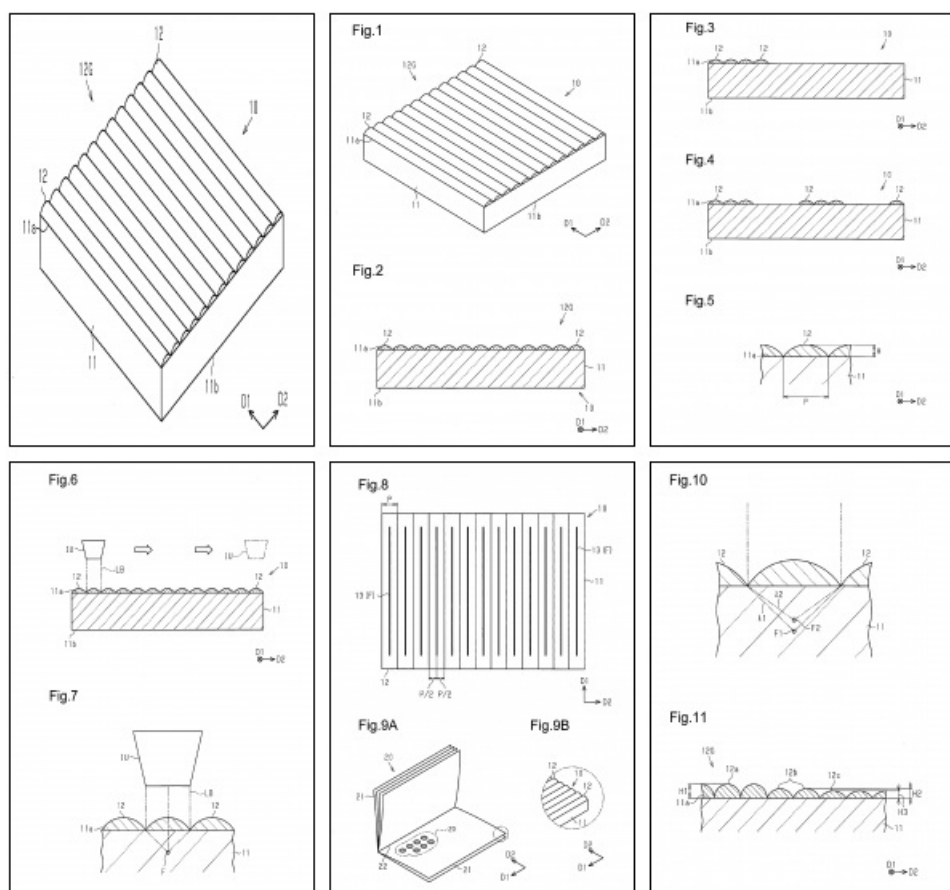
Title:
RESIN SHEET AND BOOKLET

Abstract:
Source: US2017144468A A resin sheet includes a plastic layer and at least one cylindrical lens. The resin layer has a first surface and a second surface that is the surface on the opposite side from the first surface. The cylindrical lens is formed on the first surface and extends along a first axis. The resin layer is provided with a print portion that is colored by exposure to a laser beam. The print portion includes a focal point of the cylindrical lens. The resin layer is configured allow a laser beam that enters the cylindrical lens to pass through to the print portion.

Probable Assignee:
TOPPAN PRINTING CO LTD

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

Assignee(s):
KAIZUKA TOMOYOSHI ; TOPPAN
PRINTING CO



9 more images available

Title:
METHOD OF PROVIDING AN IMAGE
THROUGH A MULTIPLE LENS ARRAY

Abstract:

Source: WO16010415A1 The invention relates to a method of providing an image on a carrier, comprising the steps of: providing the carrier comprising an array of lenses having a predetermined focal length, a distance between adjacent lenses being P micron, providing a removable optically active layer over the lenses whereby the focal length of the combined lenses and layer is increased, providing an image of an object in an image processing unit, providing the image through the array of lenses and through the optically active layer, and removing the active layer from the lenses, defining an ...

Probable Assignee:

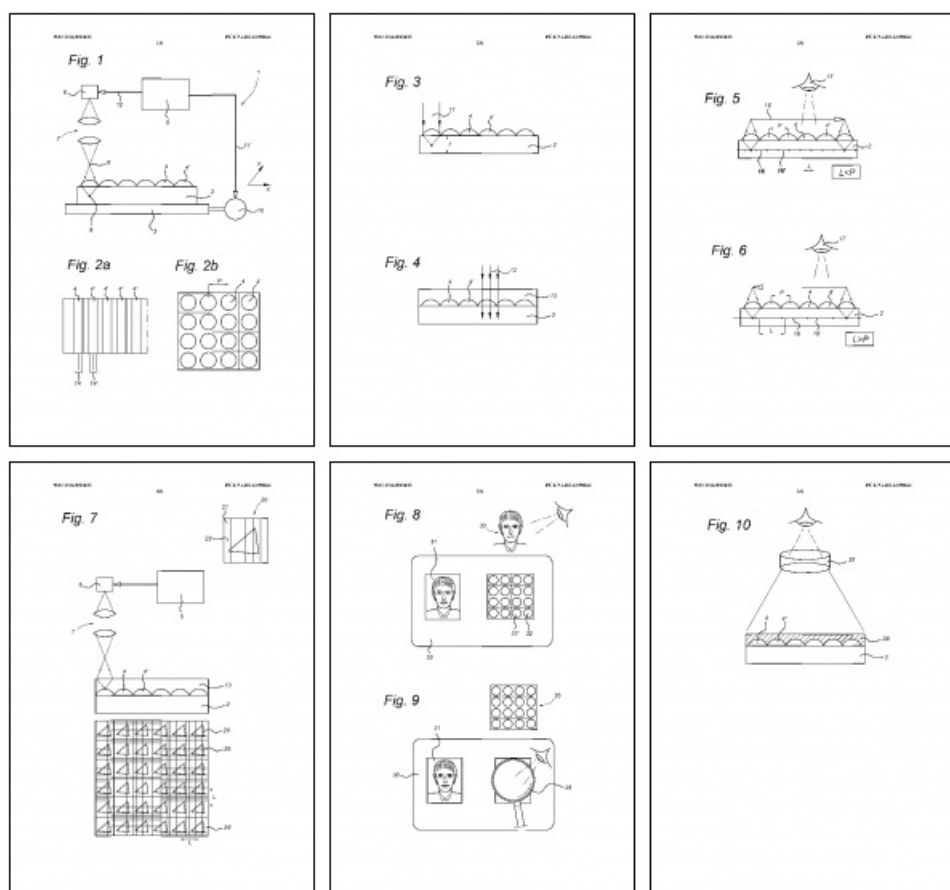
MORPHO BV

Assignee(s):(std):

MORPHO BV

Assignee(s):

VAN DEN BERG JAN ; WESSELINK
WILHELMUS JOHANNES



Title:

SECURITY DEVICE AND METHOD OF MANUFACTURE THEREOF

Abstract:

Source: US2017165997A A security device including a transparent substrate having opposing first and second surfaces; a first focusing element array disposed on the first surface of the transparent substrate; a second focusing element array disposed on the second surface of the transparent substrate; a first image array disposed on or in the transparent substrate in a first image array plane and configured to co-operate with the first focusing element array to exhibit an optically variable effect when viewed from a first side of the security device; and a second image array disposed on or in ...

Probable Assignee:

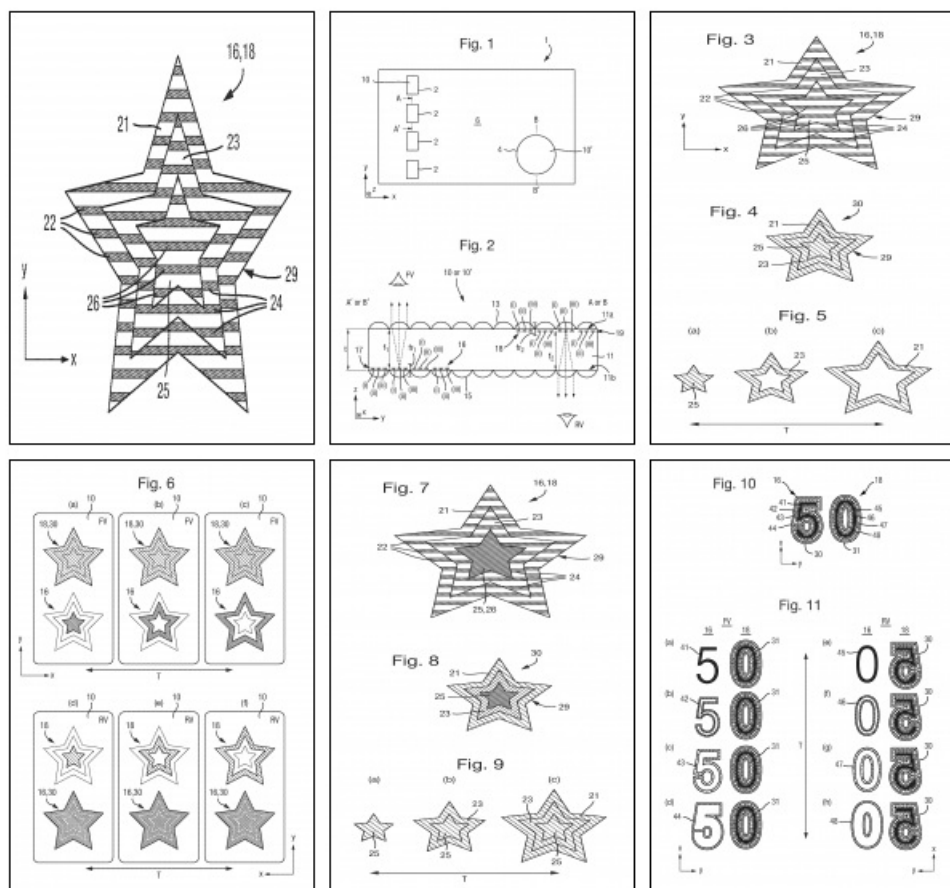
DE LA RUE INT LTD

Assignee(s):(std):

DE LA RUE INT LTD ; RUE DE INT LTD

Assignee(s):

LA RUE INT DE LTD



14 more images available

Title:
SECURE LENS LAYER

Abstract:

Source: US2017246900A A secure lens sheet or layer suitable for use in a micro-optic system, which is made up of a plurality of joined fine lens arrays (e.g., joined fine lenticular and/or joined fine non-cylindrical lens arrays), is provided. Each array has a lens pitch different from adjacent or contiguous arrays and/or is orientated in a direction different from adjacent or contiguous arrays. A micro-optic security device, which utilizes the inventive secure lens sheet and one or more overlying or underlying arrangements of micro-sized image icons (e.g., line data), is also provided. The ...

Probable Assignee:

CRANE SECURITY TECHNOLOGIES
INC

Assignee(s):(std):

CRANE SECURITY TECH INC ;
CRANE SECURITY TECHNOLOGIES
INC

Assignee(s):

COTE PAUL F

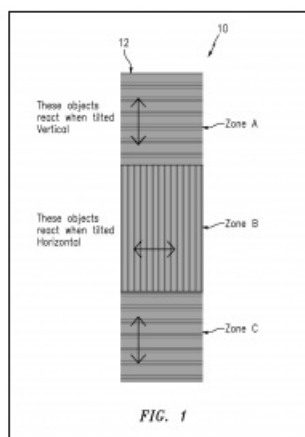
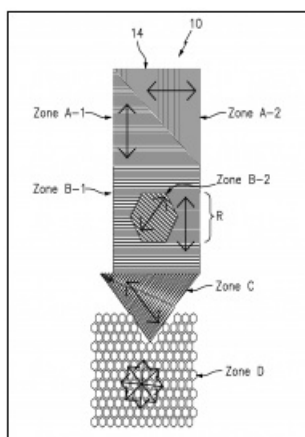


FIG. 1

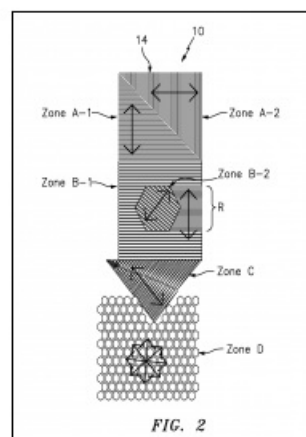


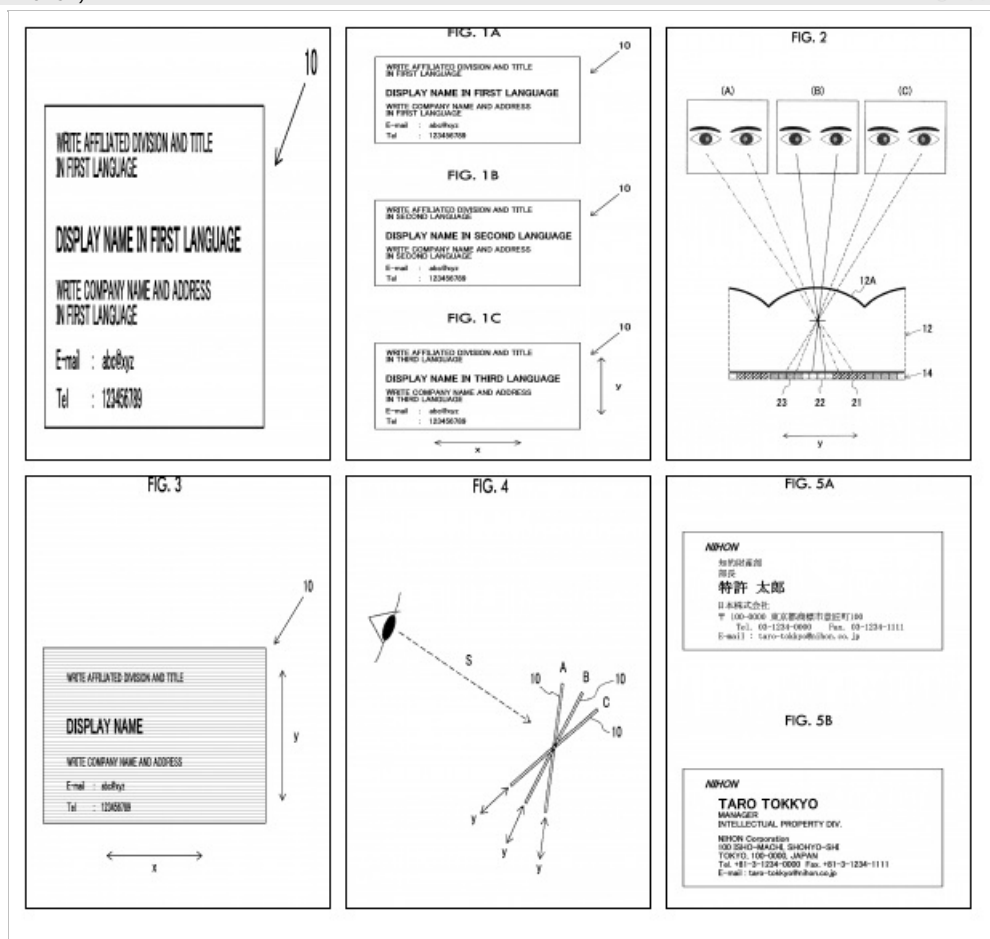
FIG. 2

Title:
LENTICULAR PRINTED MATERIAL

Abstract:
Source: US2018117943A Provided is a lenticular printed material including: a lenticular lens in which a plurality of convex lenses respectively having a semicylindrical surface are arranged in parallel; and a lenticular image which is disposed on a side opposite to the semicylindrical surface of each convex lens and includes character information to be displayed in a plurality of languages independently from each other, in which the languages for displaying the character information are switched between one another according to an observation angle in a case where the lenticular image is ...

Probable Assignee:
FUJIFILM HOLDINGS CORP

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



Title:

RETROREFLECTIVE FILM, METHOD AND DEVICE FOR PRODUCING SAME, AND RETROREFLECTIVE PLATE, PRODUCTION METHOD, AND DEVICE
 RETROREFLEKTIERENDE FOLIE, VERFAHREN UND VORRICHTUNG ZU IHRER HERSTELLUNG SOWIE RETROREFLEKTIERENDES SCHILD, HERSTELLUNGSVERFAHREN UND -VORRICHTUNG

Abstract:

Source: WO17076400A1 The invention relates to a retroreflective film (12), for example for a traffic or motor vehicle license plate, comprising a layer made of transparent microprismatic elements (14) arranged on the plane of the film (12). The film is based on a base layer (15) equipped with gas-filled or vacuum-fill chambers (16), each of which extends below a plurality of microprismatic elements (14), and a transparent cover layer (17) is arranged above the layer of microprismatic elements (14). A permanent optically perceivable structure (20) is formed in the surface or in the volume of ...

Probable Assignee:

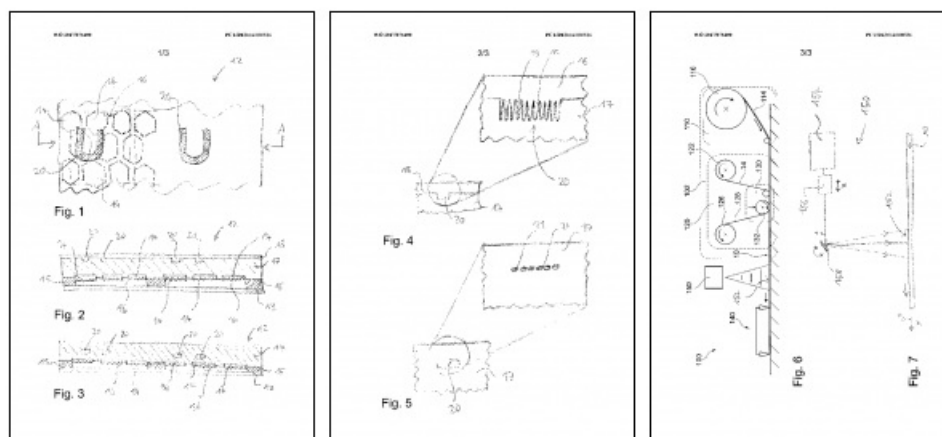
UTSCH ERICH AG

Assignee(s):(std):

UTSCH ERICH AG

Assignee(s):

ERICH UTSCH AG



Title:

METHOD FOR PRODUCING
SECURITY ELEMENTS HAVING A
LENTICULAR FLIP
VERFAHREN ZUR HERSTELLUNG VON
SICHERHEITSELEMENTEN MIT EINEM
LENTICULAR FLIP

Abstract:

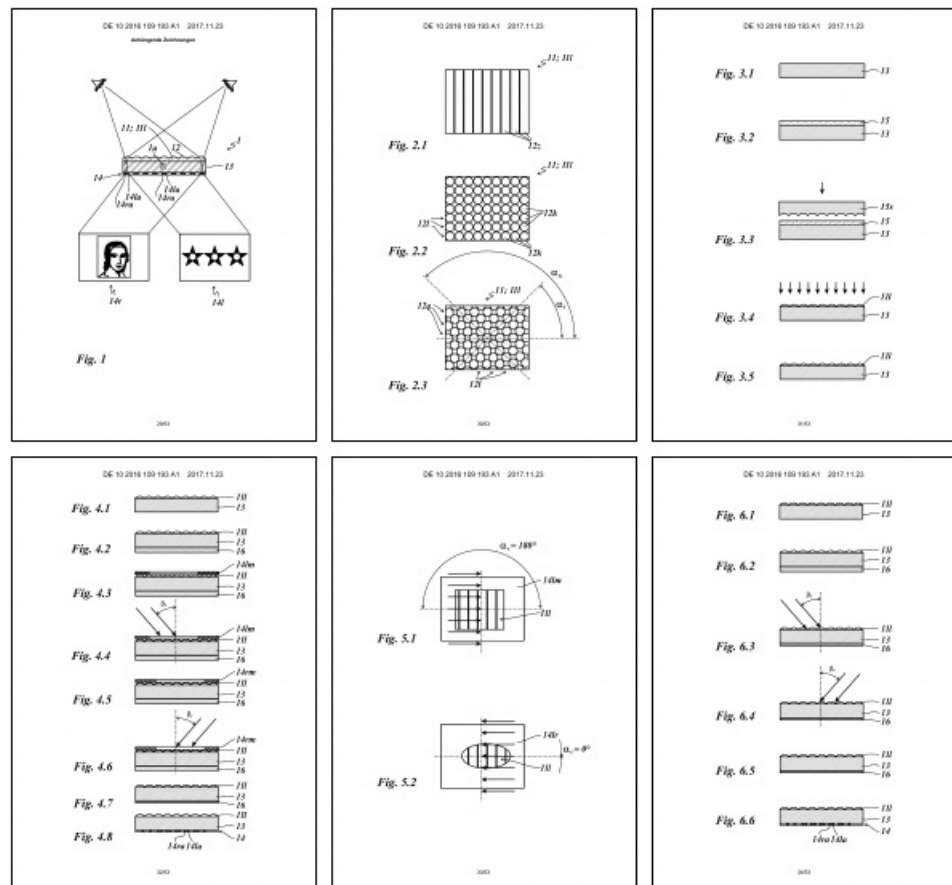
Source: WO17198486A3 Described is a method for producing a security element (1) in the form of a lenticular flip, comprising a micro-optical layer (11), a carrier substrate (13) and an image layer (14), the image layer (14) comprising n images (14l, 14r) for $n = 1$ to i which are visible from an n-th observation angle associated with the n-th image (14l, 14r), and n being at least 1. The images are imaged on a photoresist (16) with parallel light in contact print or by means of projection. After the photoresist (16) is developed, an image layer (14) which comprises the i images is present. ...

Probable Assignee:

OVD KINEGRAM AG

Assignee(s):(std):

OVD KINEGRAM AG



19 more images available

Title:

METHOD FOR PRODUCING A DATA CARRIER AND DATA CARRIER PRODUCED THEREFROM

Abstract:

Source: WO18086874A1 The present invention relates generally to a data carrier comprising an opaque layer and a method for making the data carrier. During personalization phase, the ablation of the opaque layer by laser through the data carrier allows to define a see-through portion of the data carrier carrying opaque security, said see-through portion having an improved security corresponding to opaque embossing pattern overlapping at least partially the opaque security partially destroyed. Said defined see-through portion carrying opaque security partially destroyed with opaque embossing ...

Probable Assignee:

GEMALTO SA

Assignee(s):(std):

GEMALTO SA

