

Search strategy

Query
(WO201846746)/PN

..SIMILARITY SS 1 RANKED 1

20 Documents

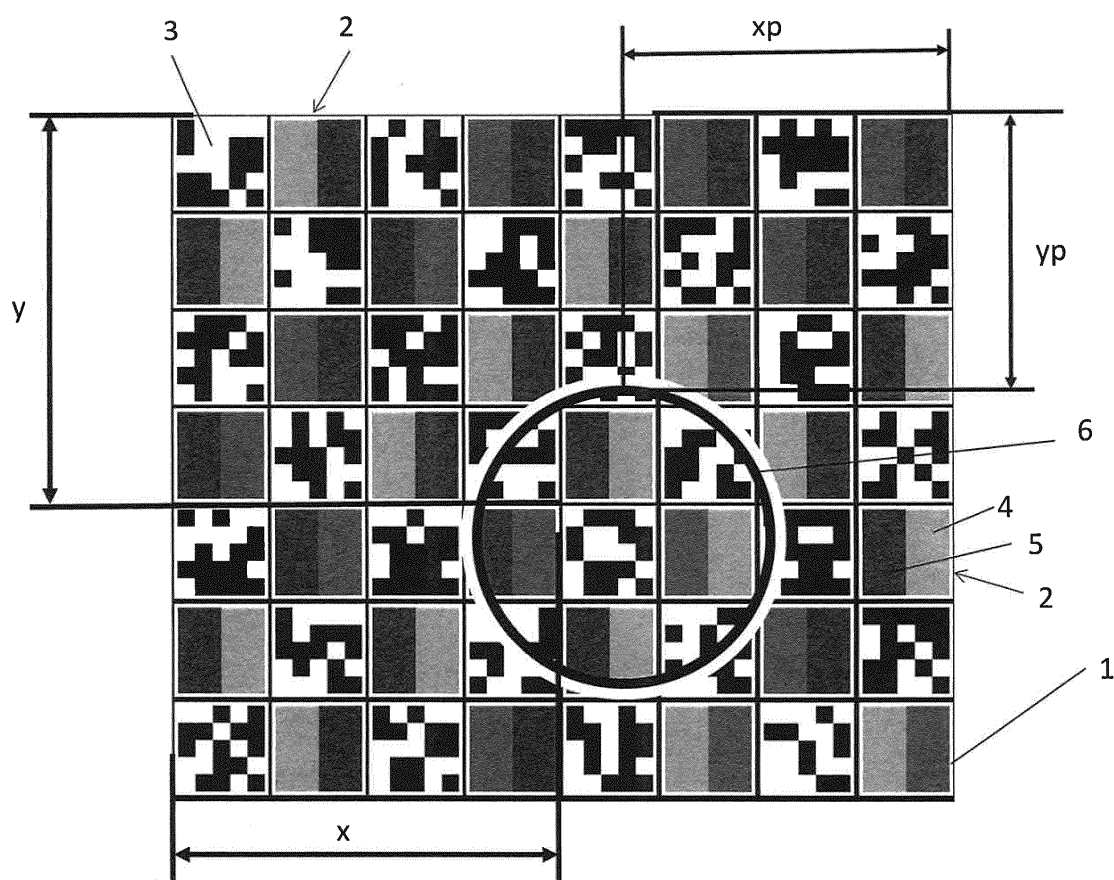
Publication numbers	Title	Current assignees
EP3293680 A1	Sheet-like product and method for authenticating a security tag	AUTHENTIC VISION
EP2878453 A1	Object markings for optical authentication and method for their production	AUTHENTIC VISION
EP1010135 A1	Method and apparatus for impeding the counterfeiting of cards, instruments and documents	HAN, WENYU, ...
EP3407559 A1	System and method to manage privileges based on the authentication of an uncloneable security device	AUTHENTIC VISION
EP3460722 A1	Tamper-activated authenticable security device	AUTHENTIC VISION
EP3564840 A1	Method for producing a security device	AUTHENTIC VISION
EP2862131 A1	Method for unambiguous marking of an object	AUTHENTIC VISION
DE102015117093 A1	Method for testing, whether products on the market, are not original products	FASSBENDER SASCHA, ...
EP3022145 A1	Coding and position determination device and method	CEDES
EP3378671 A1	Security foil	AUTHENTIC VISION
EP2990988 A1	Method and authentication system for registration of a random security feature	AUTHENTIC VISION
EP1891567 A2	Method and apparatus for authenticating products	SYMBOL TECHNOLOGIES
EP3428853 A1	Method for protecting a product against forgery	A & R CARTON
WO2015103396 A1	Pharmaceutical product packaging to prevent counterfeits	I PROPERTY HOLDING
EP3278266 A1	A two dimensional barcode with dynamic environmental data system, method, and apparatus	TEMPTIME
US20170286735 A1	Product authentication using barcode characteristics	AUTHENTIX
EP3151168 A1	Security feature against forgery, in particular for high-value products, product authentication method and product authentication system	RYBKA WOJCIECH
EP2465078 A1	Secure identification of a product	GIESECKE & DEVRIENT CURRENCY TECHNOLOGY
US5563401 A	Bar codes and methods	HIETT JOHN H., ...
EP3353717 A1	Three-dimensional authentication and identification methods, devices, and systems	AUTHENTICATE

Family 1/20 - FAMPAT - ©Questel

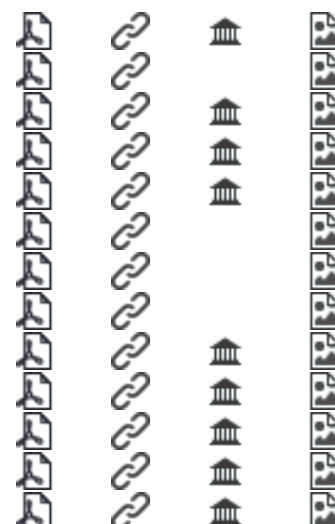
Title

(EP3293680)

Sheet-like product and method for authenticating a security tag

Images**Publication numbers with kind code & date**

JP2019533230	A	2019-11-14	JP2019533230
MX2019002794	A	2019-08-26	MX2019002794
US20190220718	A1	2019-07-18	US20190220718
EP3510527	A1	2019-07-17	EP3510527
BR112019004561	A2	2019-06-04	BR112019004561
CO2019001991	A2	2019-05-31	CO2019001991
CL2019000603	A1	2019-05-17	CL2019000603
PE20190679	A1	2019-05-14	PE067902019
CN109690575	A	2019-04-26	CN109690575
IN201937008936	A	2019-04-26	IN201937008936
BR112019004561	A1	2019-03-26	BR112019004561
WO2018/046746	A1	2018-03-15	WO201846746
EP3293680	A1	2018-03-14	EP3293680

**Abstract**

(EP3293680)

Sheet-like product (1) and method for authenticating a security tag comprising a section (6) of said sheet-like product (1), wherein the sheet-like product (1) comprises at least one security feature (2) having optical properties that change with the viewing angle and, and at least one marker (3), wherein each marker (3) is uniquely attributable to a position on the sheet-like product (1), wherein the position of the at least one security feature (2) on the sheet-like product (1) is predetermined relative to the position of the at least one marker (3) on the sheet-like product (1).

Inventors

WEISS THOMAS

BERGMÜLLER THOMAS

Latest standardized assignees - inventors removed

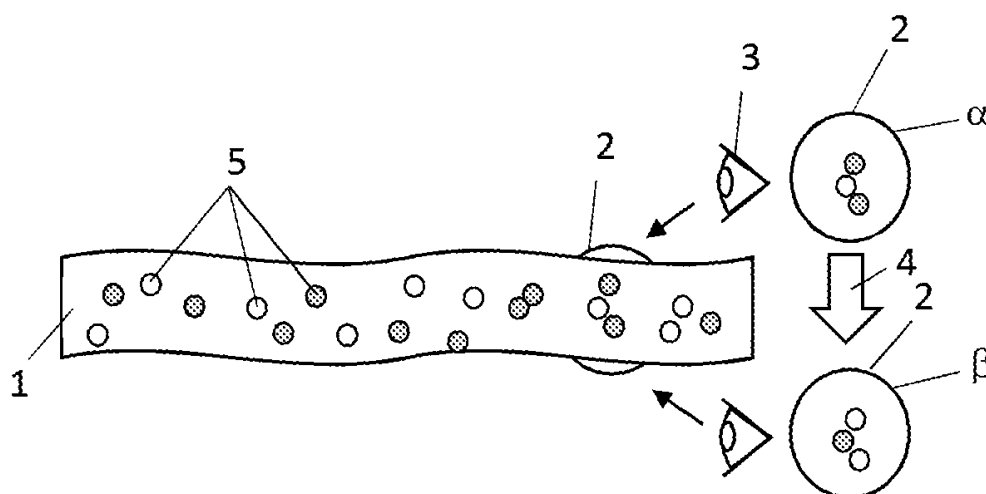
AUTHENTIC VISION

Family 2/20 - FAMPAT - ©Questel

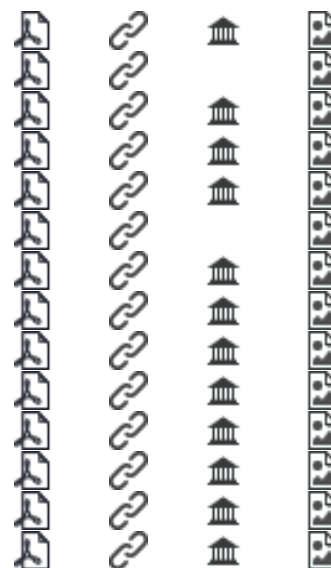
Title

(EP2878453)

Object markings for optical authentication and method for their production

Images**Publication numbers with kind code & date**

JP6609250	B2	2019-11-20	JP6609250
MX361828	B	2018-12-18	MX-361828
CN105793059	B	2018-08-10	CN105793059B
ES2660790	T3	2018-03-26	ES2660790
EP3074236	B1	2018-01-17	EP3074236
MX2016006943	A	2017-07-25	MX2016006943
JP2017500644	A	2017-01-05	JP2017500644
US20160297231	A1	2016-10-13	US20160297231
EP3074236	A1	2016-10-05	EP3074236
IN201637018419	A	2016-08-26	IN201637018419
CN105793059	A	2016-07-20	CN105793059
BR112016010738	A1	2016-05-24	BR112016010738
WO2015/079014	A1	2015-06-04	WO201579014
EP2878453	A1	2015-06-03	EP2878453

**Abstract**

(EP2878453)

Object marking (6), and method for producing same, for optical authentication of an object (10), wherein at least one section (8) of a material piece (1) of a basic material is determined arbitrarily or randomly and the object marking (6) is produced with the at least one section (8), and wherein the basic material of the material piece (1) has a repeating security feature (5) having optical properties dependent on the viewing angle, the dimensions of said security feature being larger than the dimensions of the section (8), more particularly larger than the dimensions of the object marking (6), such that each section (8) is unique and has only a part of the security feature (5).

(From US2016297231 A1)

Inventors

WEISS THOMAS

Latest standardized assignees - inventors removed

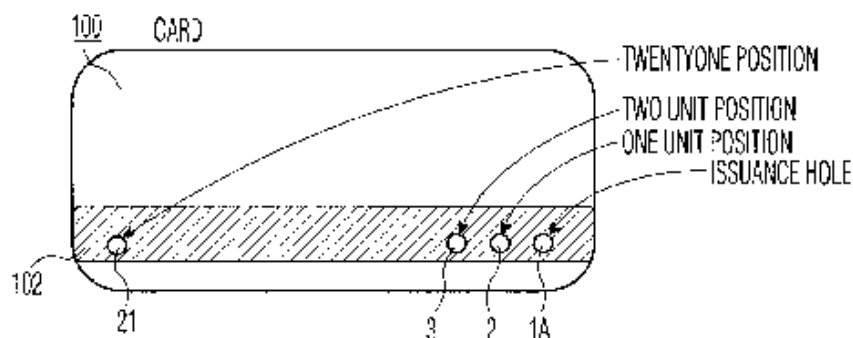
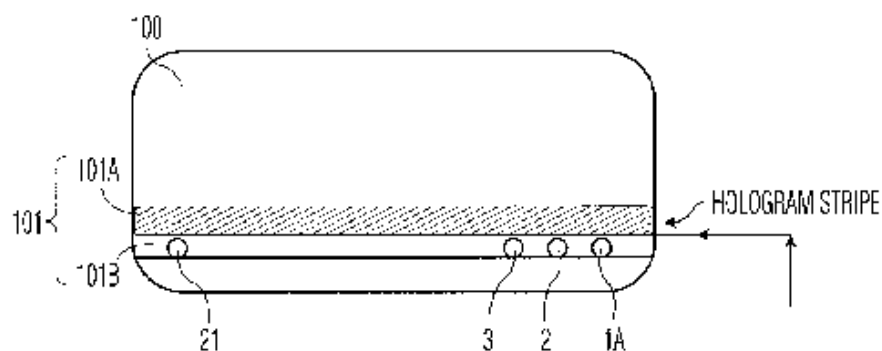
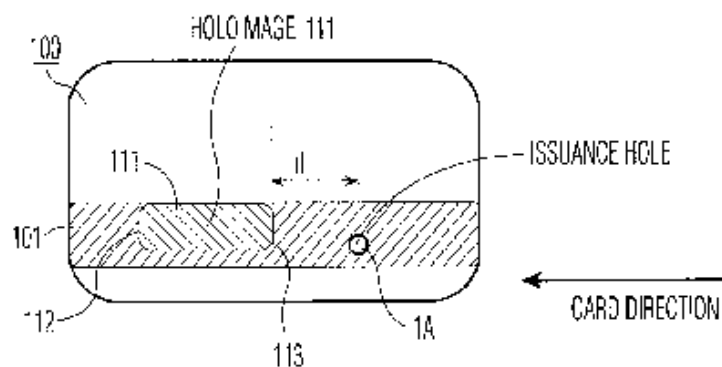
AUTHENTIC VISION

Family 3/20 - FAMPAT - ©Questel

Title

(EP1010135)

Method and apparatus for impeding the counterfeiting of cards, instruments and documents

Images**FIG. 1****FIG. 2****FIG. 3****Publication numbers with kind code & date**

JP2002517046	A	2002-06-11	JP2002517046
US6354506	B1	2002-03-12	US6354506
US6135355	A	2000-10-24	US6135355
EP1010135	A1	2000-06-21	EP1010135
US6068301	A	2000-05-30	US6068301



AU4203699	A	1999-12-13	AU9942036
CA2297830	A1	1999-12-02	CA2297830
WO99/62027	A1	1999-12-02	WO9962027

**Abstract**

(EP1010135)

To impede the counterfeiting of a valuable instrument (100a) (e.g., a cash card, negotiable instrument or any document), an issuance mark (1a) is formed on the instrument at a programmed distance (d) from a reference mark (111) located on the instrument (100a). The information pertaining to the distance (d) is encoded and written onto a storage medium (122) located in the instrument (100a). In a particular system embodying the invention, a card vending machine (95a) is programmed to encode cards with various parameters, such as the distance (d) between the reference (111) and issuance marks (1a), by writing the parametric information into an information storage medium (122) located in the card. As a corollary, in a particular system embodying the invention, a dispensing machine (95a) is programmed to read the information stored in the information storage medium (122) and the parametric information present in the card (100a) and to then compare the stored information with the values of the actual parameters present in the card.

Inventors

HAN WENYU

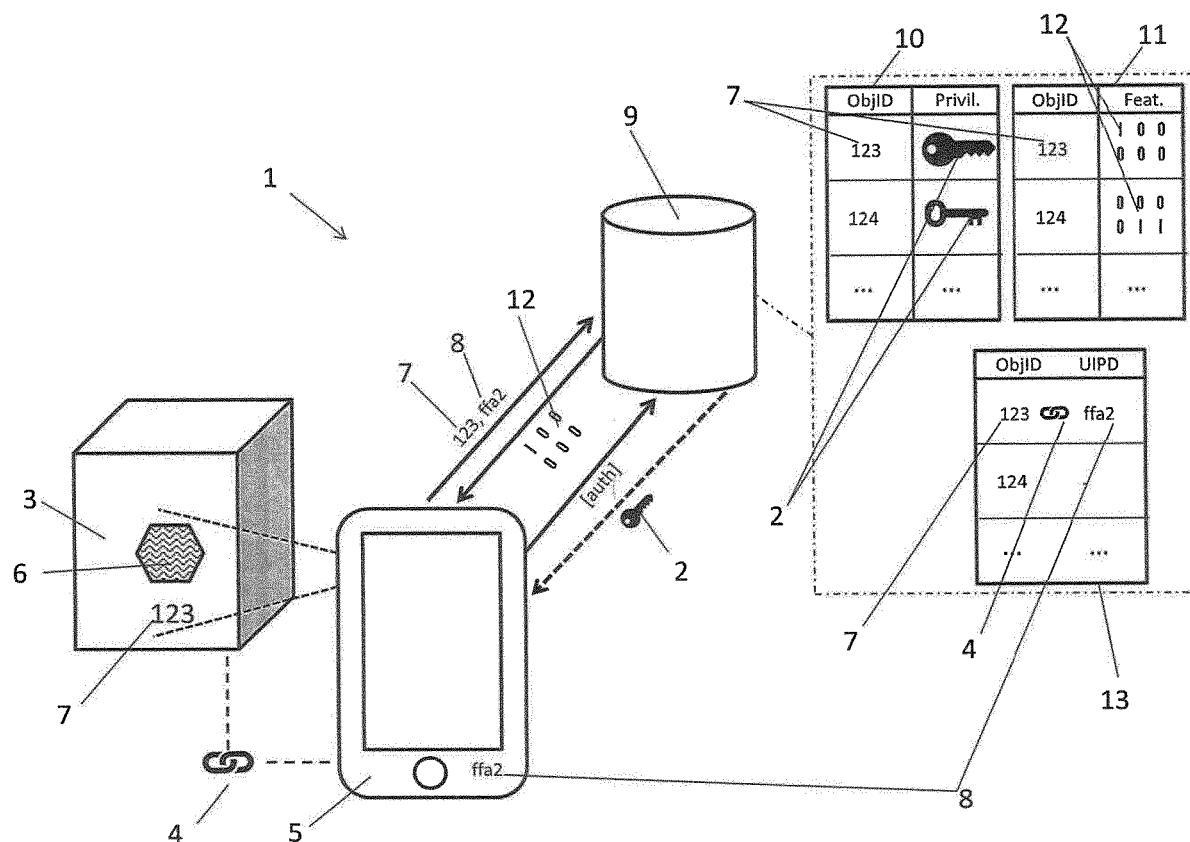
ZAZZU VICTOR

Family 4/20 - FAMPAT - ©Questel

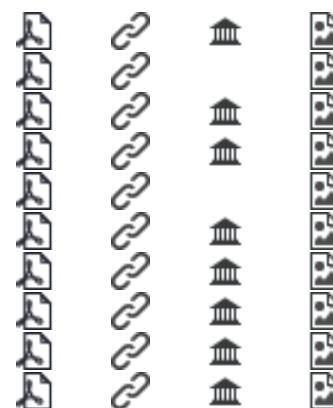
Title

(EP3407559)

System and method to manage privileges based on the authentication of an uncloneable security device

Images**Publication numbers with kind code & date**

BR112019023797	A2	2020-06-02	BR112019023797
RU2718977	C1	2020-04-15	RU2718977
EP3632075	A1	2020-04-08	EP3632075
US20200099694	A1	2020-03-26	US20200099694
KR10-2020-0012912	A	2020-02-05	KR20200012912
CN110679130	A	2020-01-10	CN110679130
IN201937046689	A	2019-12-20	IN201937046689
BR112019023797	A1	2019-11-26	BR112019023797
WO2018/215637	A1	2018-11-29	WO2018215637
EP3407559	A1	2018-11-28	EP3407559

**Abstract**

(EP3407559)

System (1) and method to manage privileges, wherein privileges are assigned to uniquely identifiable objects and a link (4) between a uniquely identifiable object (3) and a uniquely identifiable programmable device (5) is established, wherein the established link (4) allows the uniquely identifiable programmable device (5) to make use of at least a part of the privileges (2) assigned to the uniquely identifiable object (3) and where the link (4) is established under a set of preconditions, where at least the precondition of physical proximity between the uniquely identifiable object (3) and the uniquely identifiable programmable device (5) is verified and the uniquely identifiable object (3) comprises a irreproducible security device (6), which is registered to the uniquely identifiable object (3) and can be used to verify physical proximity between the uniquely identifiable object (3) and the uniquely identifiable programmable device (5) by authenticating the irreproducible security device (6) by optical authentication means, wherein at least a part of the authentication process is carried out by the uniquely identifiable programmable device (5).

Inventors

WEISS THOMAS

BERGMÜLLER THOMAS

Latest standardized assignees - inventors removed

AUTHENTIC VISION

Family 5/20 - FAMPAT - ©Questel

Title

(EP3460722)

Tamper-activated authenticable security device

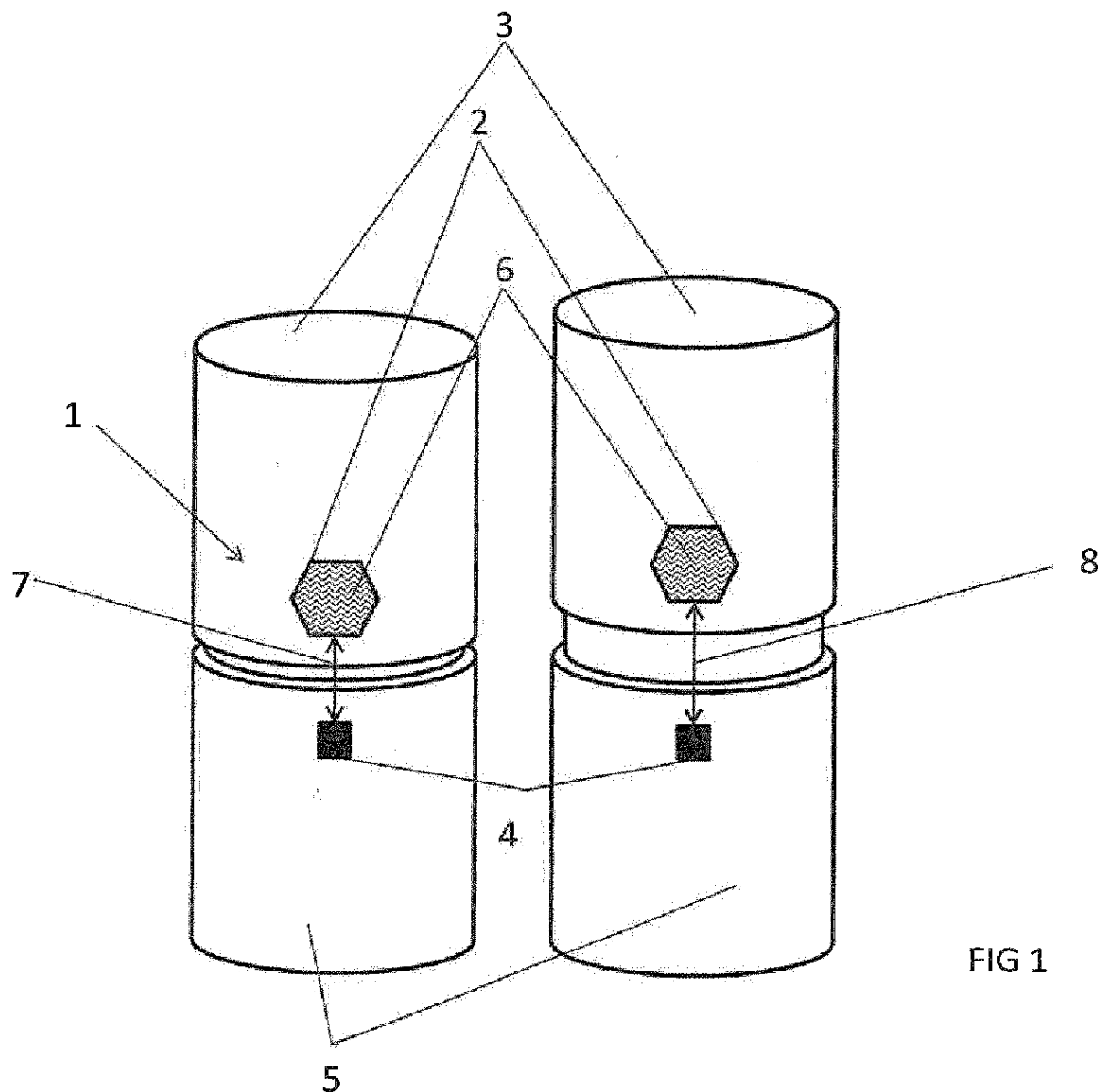
Images

FIG 1

Publication numbers with kind code & date

IN202037010695	A	2020-06-12	IN202037010695
CN111133449	A	2020-05-08	CN111133449
WO2019/057877	A1	2019-03-28	WO201957877
EP3460722	A1	2019-03-27	EP3460722

**Abstract**

(EP3460722)

A security device (1, 19) and a method for verifying such a security device (1, 19), the security device (1, 19) having at least two security features, where at least one of said security features is a tamper-evident security feature, which is configured to alter irreversibly upon mechanical tampering with the security device (1, 19), and at least one other of said security features is a robust security feature, which is robust against tampering with the security device (1, 19), wherein the at least two security features can be extracted from at least one image of the security device (1, 19) with a programmable device comprising a camera at least in an intact state of the security device (1, 19).

Inventors

BERGMÜLLER THOMAS

WEISS THOMAS

Latest standardized assignees - inventors removed

AUTHENTIC VISION

Family 6/20 - FAMPAT - ©Questel

Title

(EP3564840)

Method for producing a security device

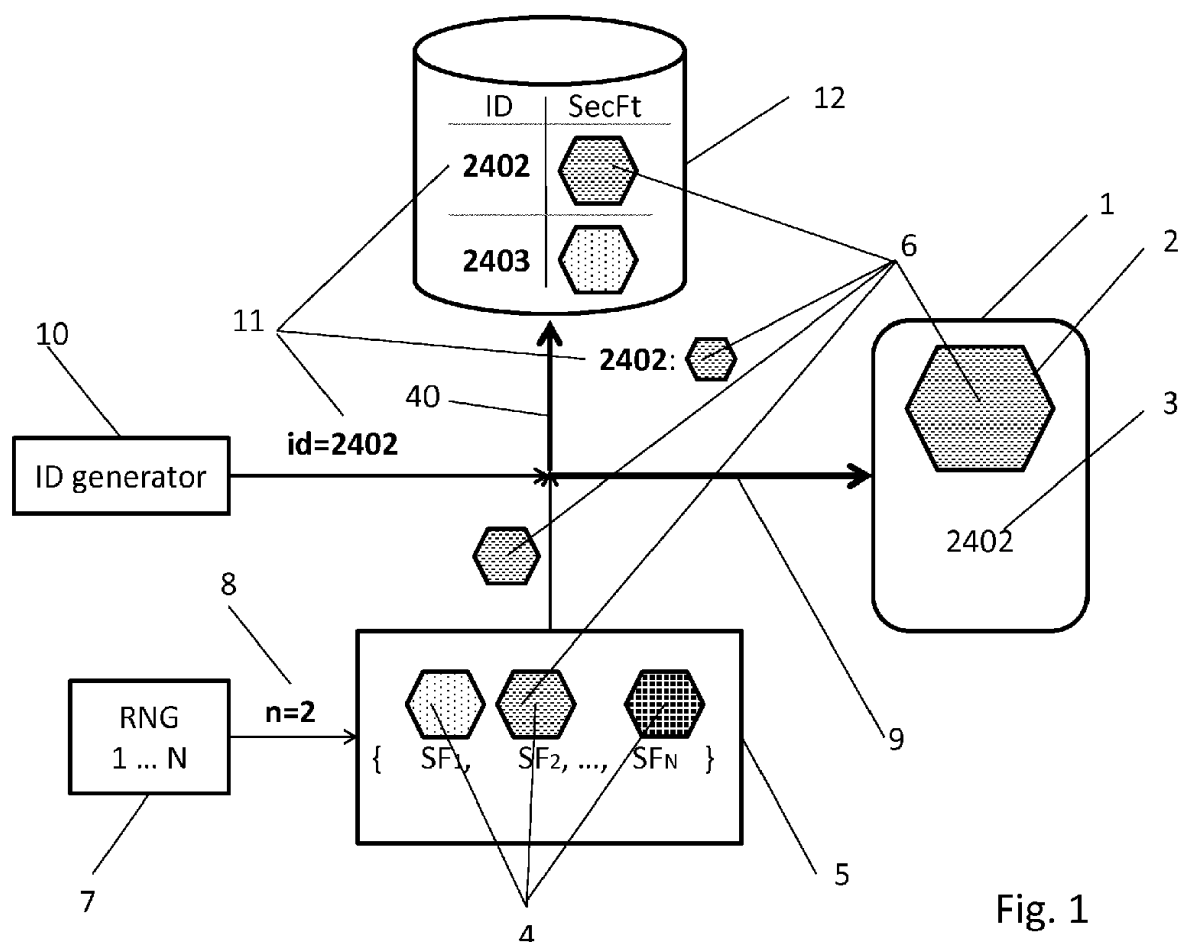
Images

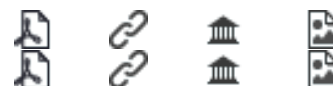
Fig. 1

Publication numbers with kind code & date[WO2019/211422](#)

A1 2019-11-07

[WO2019211422](#)[EP3564840](#)

A1 2019-11-06

[EP3564840](#)**Abstract**

(EP3564840)

Method for producing a security device (1) comprising the following steps: providing at least one stochastic selector (8), generating a coupling between an identifier (11) and one particular combination of security features (6) from a finite set (5) of distinct combinations of security features based on the at least one stochastic selector (8), registering the coupling in a database (12); and applying an identification element (3) comprising the identifier (11) and a non-printable security element (2) comprising the particular combination of security features (6) according to the coupling to a substrate (22) to produce a security device (1).

Inventors

WEISS THOMAS

BERGMÜLLER THOMAS

Latest standardized assignees - inventors removed

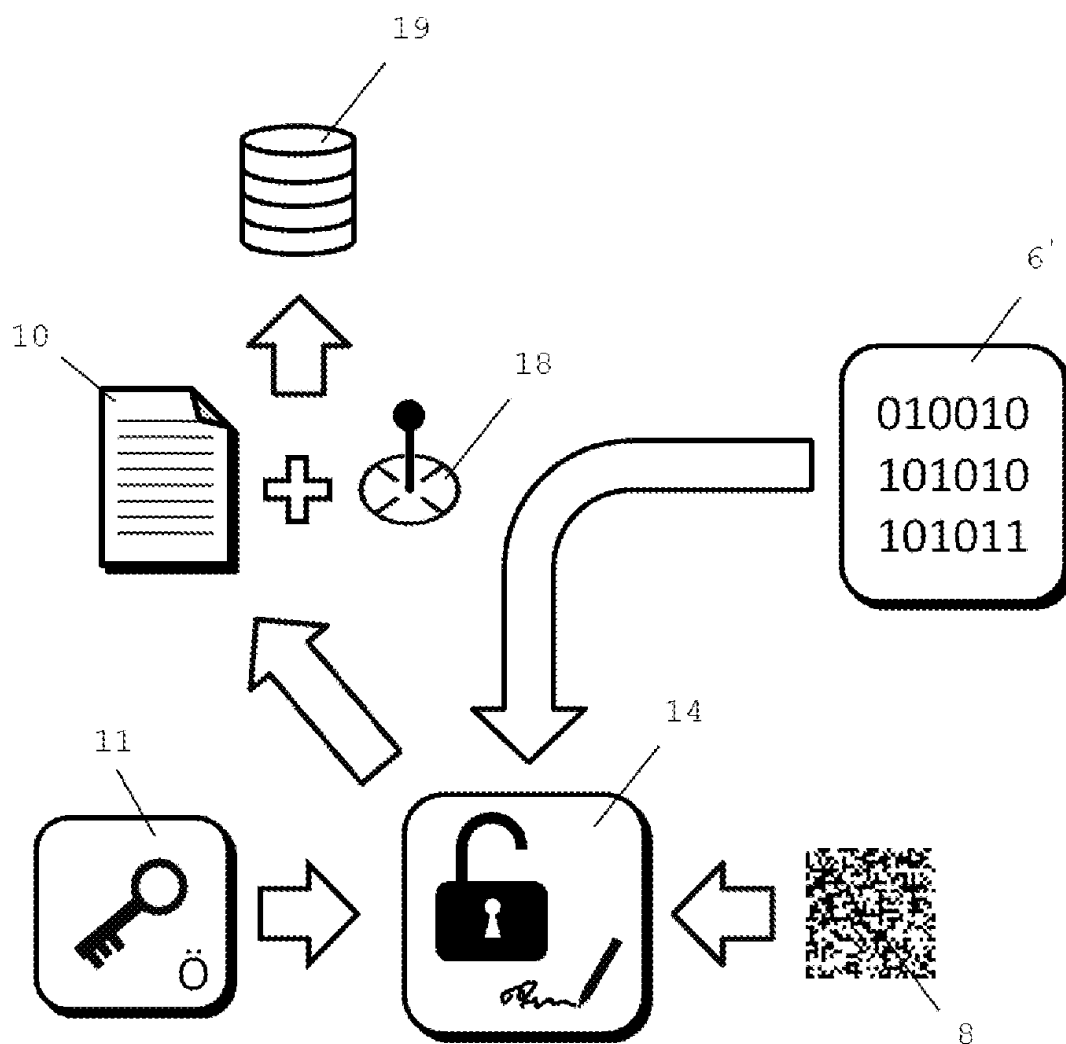
AUTHENTIC VISION

Family 7/20 - FAMPAT - ©Questel

Title

(EP2862131)

Method for unambiguous marking of an object

Images**Publication numbers with kind code & date**

EP2862131	B1	2020-06-03	EP2862131
CN104428798	B	2017-10-13	CN104428798B
BR112014031452	A2	2017-06-27	BR112014031452
US9548863	B2	2017-01-17	US9548863
IN0078/KOLNP/2015	A	2015-12-11	IN2015KN00078
JP2015526946	A	2015-09-10	JP2015526946
US20150188706	A1	2015-07-02	US20150188706
EP2862131	A1	2015-04-22	EP2862131
CO7230328	A2	2015-03-31	CO7230328
BR112014031452	A1	2015-03-24	BR112014031452
CN104428798	A	2015-03-18	CN104428798
AT513243	A1	2014-02-15	AT-513243
WO2013/188897	A1	2013-12-27	WO2013188897

**Abstract**

(EP2862131)

The invention relates to a method or system for unambiguous marking of an object (1), wherein unique features (3) are digitised and signed with a private key (9) and the unique features (3) themselves, in addition to the signature (8) of the

digitised features (6), are arranged on the object (1) or a packaging (2) of the object (1), or are formed by at least a part of the object (1) or the packaging (2) thereof, and the authenticity of the object (1) is determined by comparison of the unique features (3) to the signature (8) of the digitised features (6), which signature is arranged on the object (1) or the packaging (2) thereof and decrypted with a public key (11). To create a secure method that can be implemented simply and cost-effectively, the unique features (3) are formed by optically detectable three-dimensional structures or materials with optical properties that differ depending on the angle of view (15), and the digitised features (6) are generated with the aid of an algorithm (17) which is applied to at least two digital images (16, 16') of the unique features (3) recorded with at least one digital camera (5).

Inventors

WEISS THOMAS

Latest standardized assignees - inventors removed

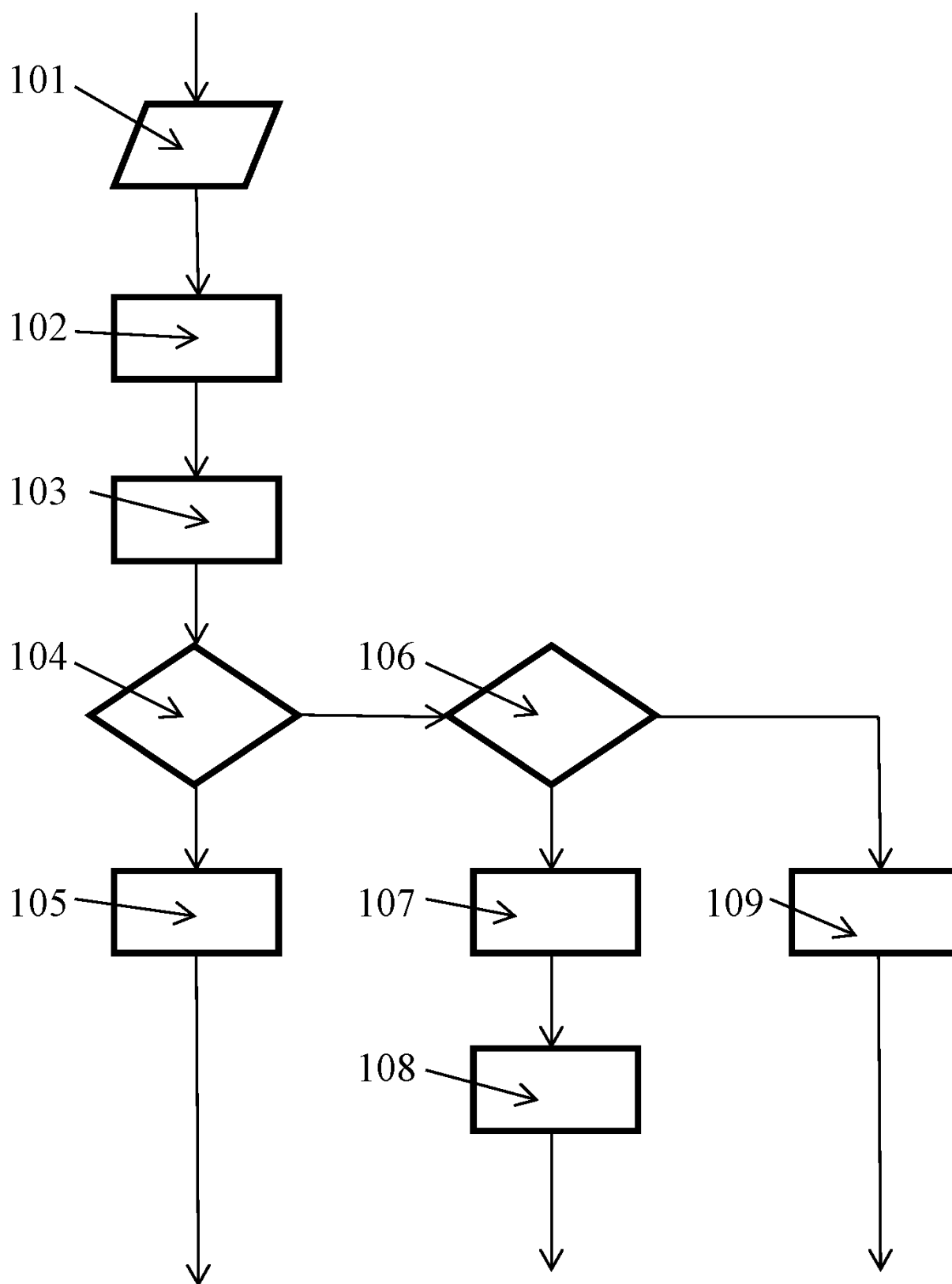
AUTHENTIC VISION

Family 8/20 - FAMPAT - ©Questel

Title

(DE102015117093)

Method for testing, whether products on the market, are not original products

Images**Publication numbers with kind code & date**[DE102015117093](#)

B4 2016-08-18

DE102015117093

[DE102015117093](#)

A1 2015-12-03

DE102015117093

**Abstract**

(DE102015117093)

The present invention relates to a method for testing, whether products on the market, the products are not genuine, wherein the individual products associated with an electronic element with a memory, wherein the value of the memory of the electronic element includes an identification of the individual product and can be read out via an external reader unit. According to the present invention the value of the memory includes in addition to the identification of the individual product a variable size. The variable size is changed from the electronic element in the case of a read-out of the memory via an external reader unit characteristic. The characteristic is stored as a new value of the variable size changed amount in the memory of the electronic element. The read-out value of the memory of the electronic element or the changed parameter is compared with a centrally stored value characteristic of the identification of the individual product. It is related, compare, the number of times the corresponding individual product was subjected to verification and the number of times a check in the centrally stored value registers of the respective product identifier was. Were registered at the centrally stored value of the respective product identification more checks than in the respective product, it is concluded, that at least one product counterfeiting is available in the market.

Inventors

FASSBENDER SASCHA

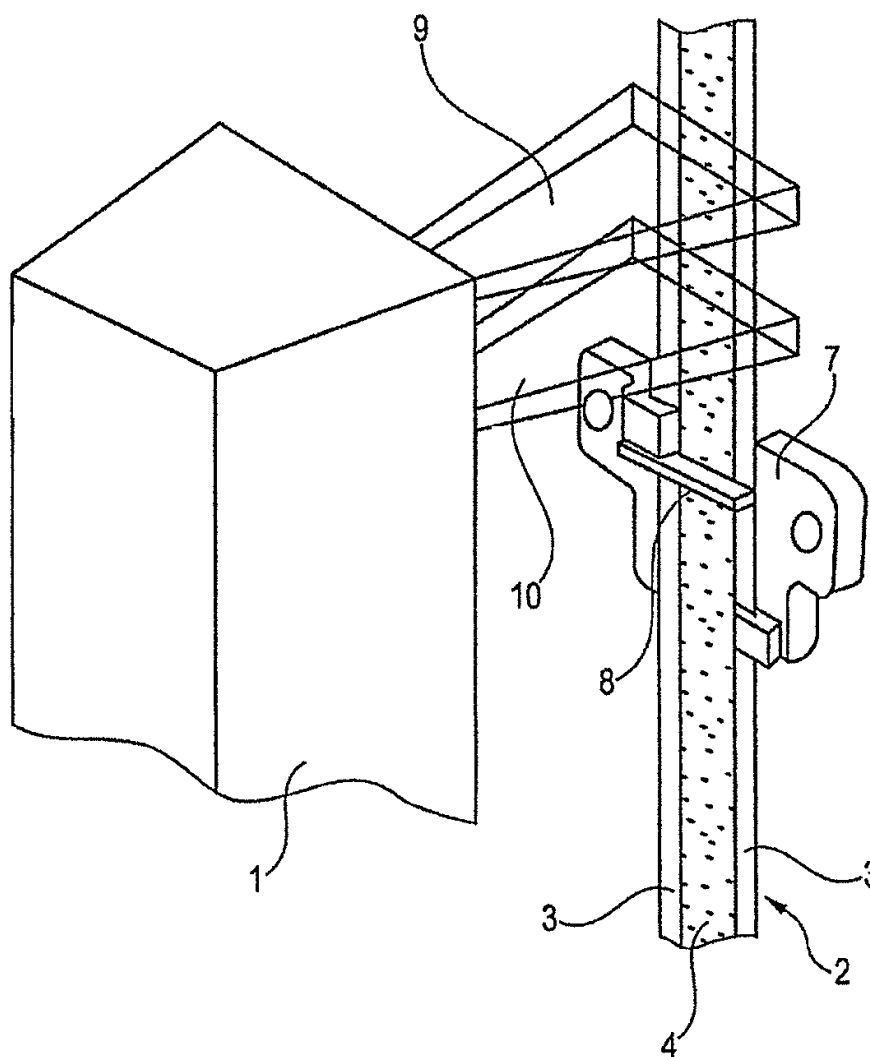
SEEGER WERNER

Family 9/20 - FAMPAT - ©Questel

Title

(EP3022145)

Coding and position determination device and method

Images**Publication numbers with kind code & date**

US10185858	B2	2019-01-22	US10185858
CN105636895	B	2018-10-26	CN105636895B
EP3022145	B1	2018-05-30	EP3022145
EP3057901	B1	2018-05-30	EP3057901
CN105636894	B	2018-05-25	CN105636894B
EP3036185	B1	2018-05-09	EP3036185
CN105658556	B	2018-02-23	CN105658556B
CN105636893	B	2018-02-13	CN105636893B
ES2646300	T3	2017-12-13	ES2646300
EP3036184	B1	2017-08-16	EP3036184
US9704010	B2	2017-07-11	US9704010



US9558388	B2	2017-01-31	US9558388				
US20160289041	A1	2016-10-06	US20160289041				
US20160272459	A1	2016-09-22	US20160272459				
US20160275328	A1	2016-09-22	US20160275328				
EP3057901	A1	2016-08-24	EP3057901				
EP3036184	A1	2016-06-29	EP3036184				
EP3036185	A1	2016-06-29	EP3036185				
CN105658556	A	2016-06-08	CN105658556				
US9359170	B2	2016-06-07	US9359170				
CN105636893	A	2016-06-01	CN105636893				
CN105636894	A	2016-06-01	CN105636894				
CN105636895	A	2016-06-01	CN105636895				
EP3022145	A1	2016-05-25	EP3022145				
WO2015/055296	A1	2015-04-23	WO201555296				
WO2015/055298	A1	2015-04-23	WO201555298				
WO2015/055299	A1	2015-04-23	WO201555299				
WO2015/055300	A1	2015-04-23	WO201555300				
US20150102097	A1	2015-04-16	US20150102097				

Abstract

(EP3022145)

The invention relates to a computer-implemented method for determining the position of an elevator cab in an elevator shaft, which method enables an increased level of safety, comprising image processing by optically recording a section of the code strip and at least one section of a marking device, which is attached to the elevator shaft, in order to create a pixel image (K) consisting of pixels, and comprising position pattern analysis by identifying code markings (5, 6) from the pixel image, by identifying a position pattern from the code markings, by converting the position pattern into binary code, and by decoding the binary code into a position, and comprising reference marking analysis by reading out at least one line of the pixel image or code markings in the region for code markings to be expected, by converting the read-out pixels or groups of adjacent pixels into respective numeric codes, in particular into respective grayscale values, by comparing the numeric codes or sums of the numeric codes with a threshold value, and by identifying a reference marking in dependence on the comparison.

Inventors

SCHATT MICHAEL

GRAF MARCO

Latest standardized assignees - inventors removed

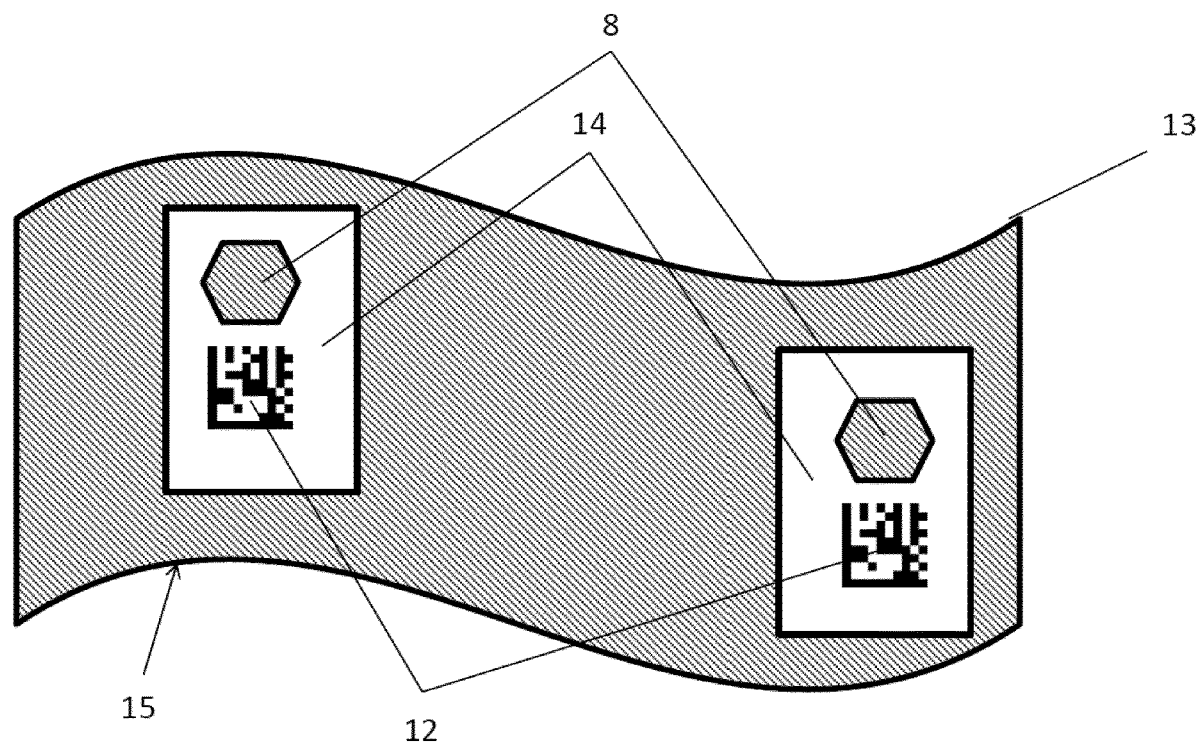
CEDES

Family 10/20 - FAMPAT - ©Questel

Title

(EP3378671)

Security foil

Images**Publication numbers with kind code & date**

EP3600904	A1	2020-02-05	EP3600904
US20200016918	A1	2020-01-16	US20200016918
IN201937041556	A	2019-12-06	IN201937041556
CN110461619	A	2019-11-15	CN110461619
WO2018/172498	A1	2018-09-27	WO2018172498
EP3378671	A1	2018-09-26	EP3378671

**Abstract**

(EP3378671)

Security foil (13) comprising at least a carrier layer (2), a protection layer (3) and a functional layer (4), wherein the functional layer (4) has at least one clearance (14), wherein the security foil (13) comprises a printed layer (17) arranged within and partially filling said clearance (14), and wherein the printed layer (17) represents a marking (12), and method for producing such a security foil (13) from an original foil (16) by selectively removing parts of the functional layer (4) of the original foil (16) to produce the clearance (14) in the functional layer (4) and by printing a marking (12) within the clearance (12) to produce the printed layer (17).

Inventors

WEISS THOMAS

BERGMÜLLER THOMAS

HUPRICH PHILIP

Latest standardized assignees - inventors removed

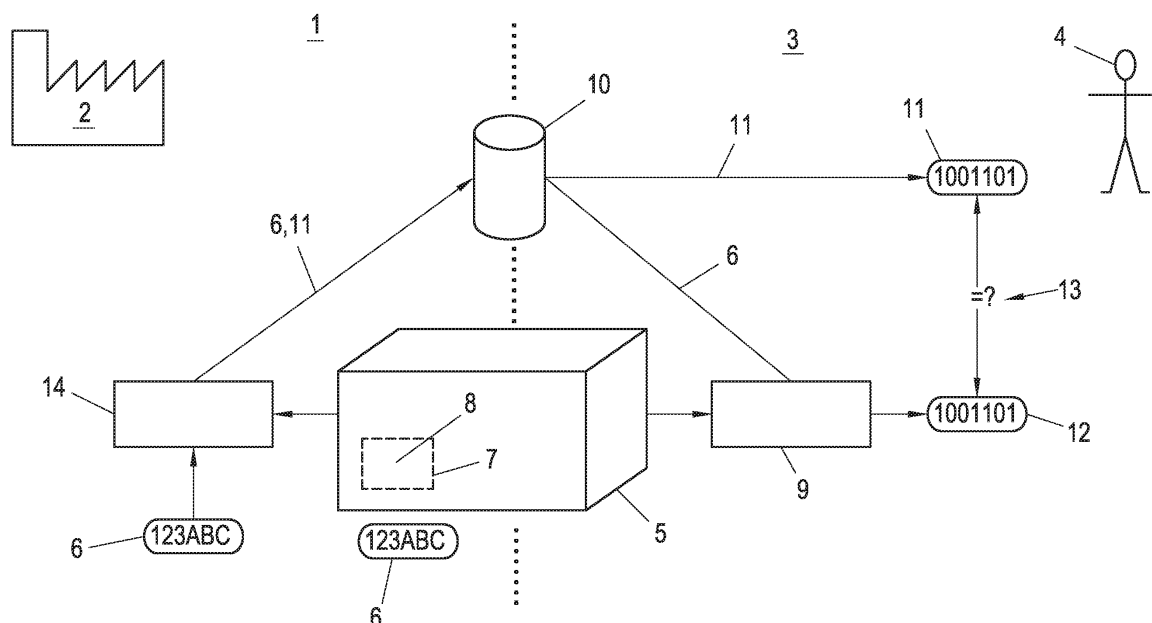
AUTHENTIC VISION

Family 11/20 - FAMPAT - ©Questel

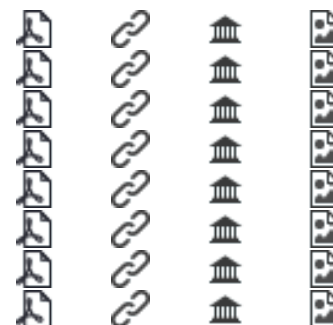
Title

(EP2990988)

Method and authentication system for registration of a random security feature

Images**Publication numbers with kind code & date**

EP3189465	B1	2020-02-19	EP3189465
JP2017532696	A	2017-11-02	JP2017532696
US20170286974	A1	2017-10-05	US20170286974
IN201737010076	A	2017-08-25	IN201737010076
CN107078909	A	2017-08-18	CN107078909
EP3189465	A1	2017-07-12	EP3189465
WO2016/034555	A1	2016-03-10	WO201634555
EP2990988	A1	2016-03-02	EP2990988

**Abstract**

(EP2990988)

The invention relates to a method and an authentication system for registering a random security feature (8) of a product (5) in a database (10) on the basis of a reproducible identification feature (6) of the product (5), wherein the security feature (8) is being linked to the identification feature (6), and said random security feature (8) is being registered on the condition that a preliminary authentication check (15) of the product (5) is positive, such that any subsequent definitive authentication checks of the product (5) may use the registered security feature.

(From US2017286974 A1)

Inventors

WEISS THOMAS

BERGMÜLLER THOMAS

Latest standardized assignees - inventors removed

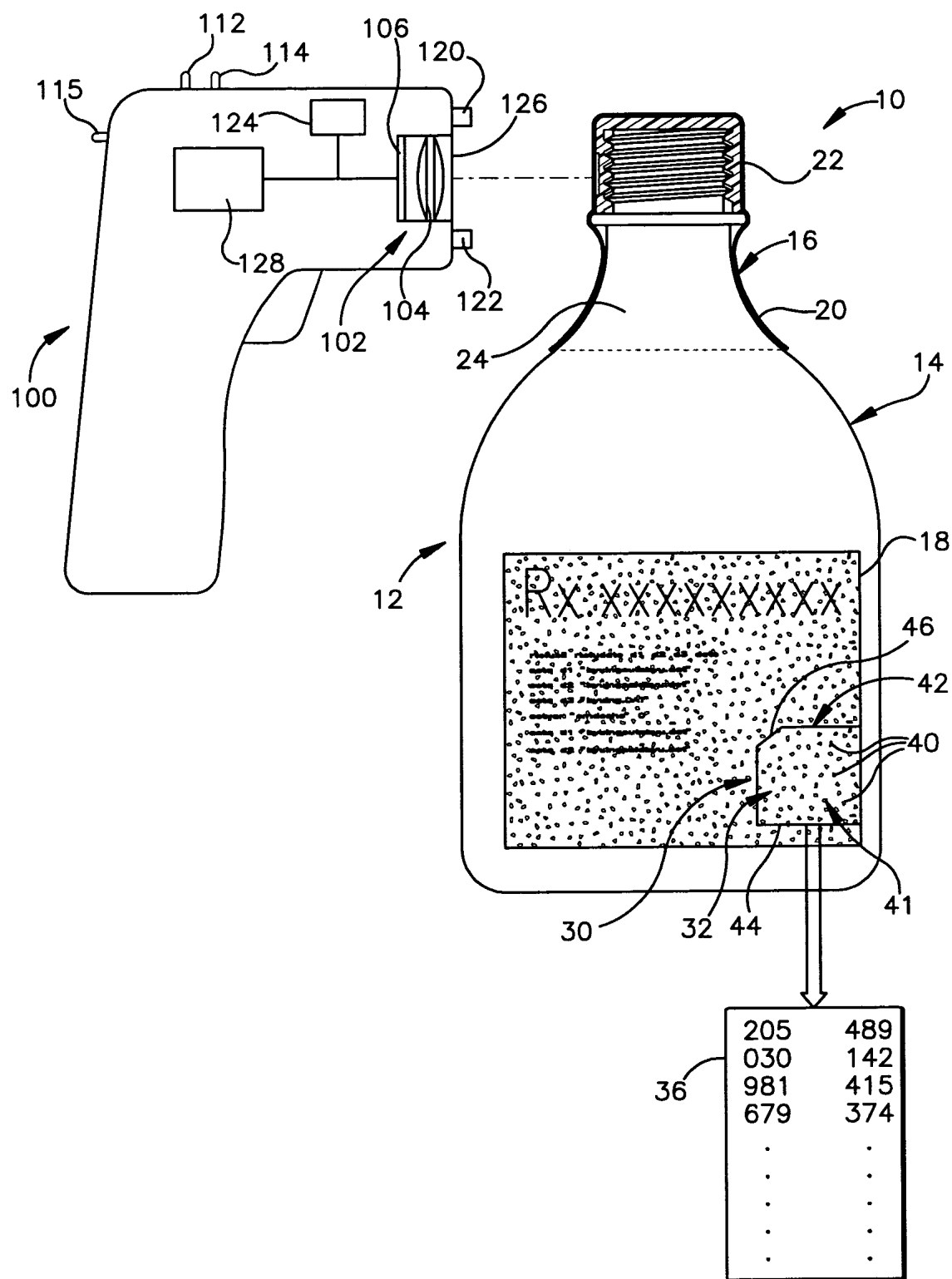
AUTHENTIC VISION

Family 12/20 - FAMPAT - ©Questel

Title

(EP1891567)

Method and apparatus for authenticating products

Images**Publication numbers with kind code & date**

EP1891567 A4 2010-01-06
 JP2008542916 A 2008-11-27
 CN101189613 A 2008-05-28
 EP1891567 A2 2008-02-27

EP1891567
 JP2008542916
 CN101189613
 EP1891567



US7309011	B2	2007-12-18	US7309011				
WO2006/130444	B1	2007-07-19	WO2006130444				
WO2006/130444	A3	2007-05-18	WO2006130444				
WO2006/130444	A2	2006-12-07	WO2006130444				
US20060091209	A1	2006-05-04	US20060091209				

Abstract

(EP1891567)

A method of identifying or authenticating a product by providing an analog identification indicium including a randomized pattern of identification features on a first part of the product wherein one or more attributes of the randomized pattern of identification features correspond to an item identifier. A digital identification record is provided on a second part of the product including an encoded digital version of the item identifier, the first and second parts being separable when the product is used. The randomized pattern of identification features of the analog identification indicium is read and decoded to generate an item identifier and the digital identification record is read and decoded to generate an item identifier. If a special light source is necessary to read the randomized pattern of identification feature, a flag is present in the analog identification indicium or the digital identification record that indicates one or more types of light sources that can be used to read the identification feature. The appropriate light source is activated to read the identification feature and if the appropriate light source is not available the user is alerted to this fact. The product is deemed authentic if the item identifier from the analog identification indicium substantially matches the item identifier from the digital identification record.

Inventors

HE DUANFENG

Latest standardized assignees - inventors removed

SYMBOL TECHNOLOGIES

Family 13/20 - FAMPAT - ©Questel

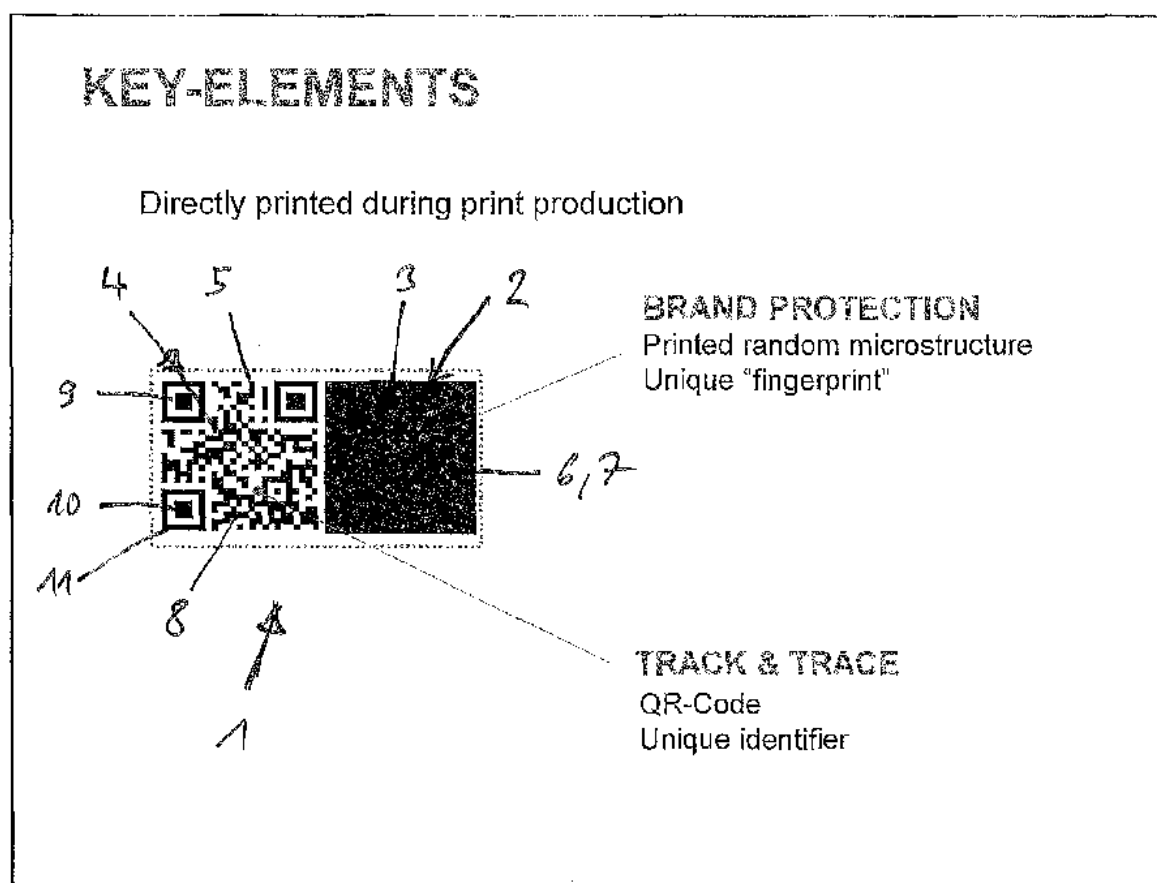
Title

(EP3428853)

Method for protecting a product against forgery

Images

Fig. 1

**Publication numbers with kind code & date**

EP3652677	A1	2020-05-20	EP3652677
CN111033528	A	2020-04-17	CN111033528
WO2019/011632	A1	2019-01-17	WO201911632
EP3428853	A1	2019-01-16	EP3428853

**Abstract**

(EP3428853)

A method for protecting a product against forgeries comprising the following steps: 1.1 a layer having, as an individualising security feature, chaotically arranged structures that are optically capturable is printed onto a packaging material, 1.2 an optically capturable product code is printed onto the packaging material, 1.3 at least one special pigment not falling under the CMYK colour space is printed onto the packaging material as a further security feature, 1.4 the chaotically arranged structures and the product code on the packaging material are captured and stored with the special pigment as information about a determined original packaging material in a database, 1.5 the chaotically arranged structures, the product code and the special pigment on the packaging material are captured by means of an optoelectronic capture device, 1.6 the above information is transmitted to a computer to authenticate the product and the computer uses the database to check whether

the information captured by means of the optoelectronic capture device is concordant with the information stored in the database for a determined original packaging material.

(From WO2019011632 A1)

Inventors

MACK RALF

MISOF PETER

Latest standardized assignees - inventors removed

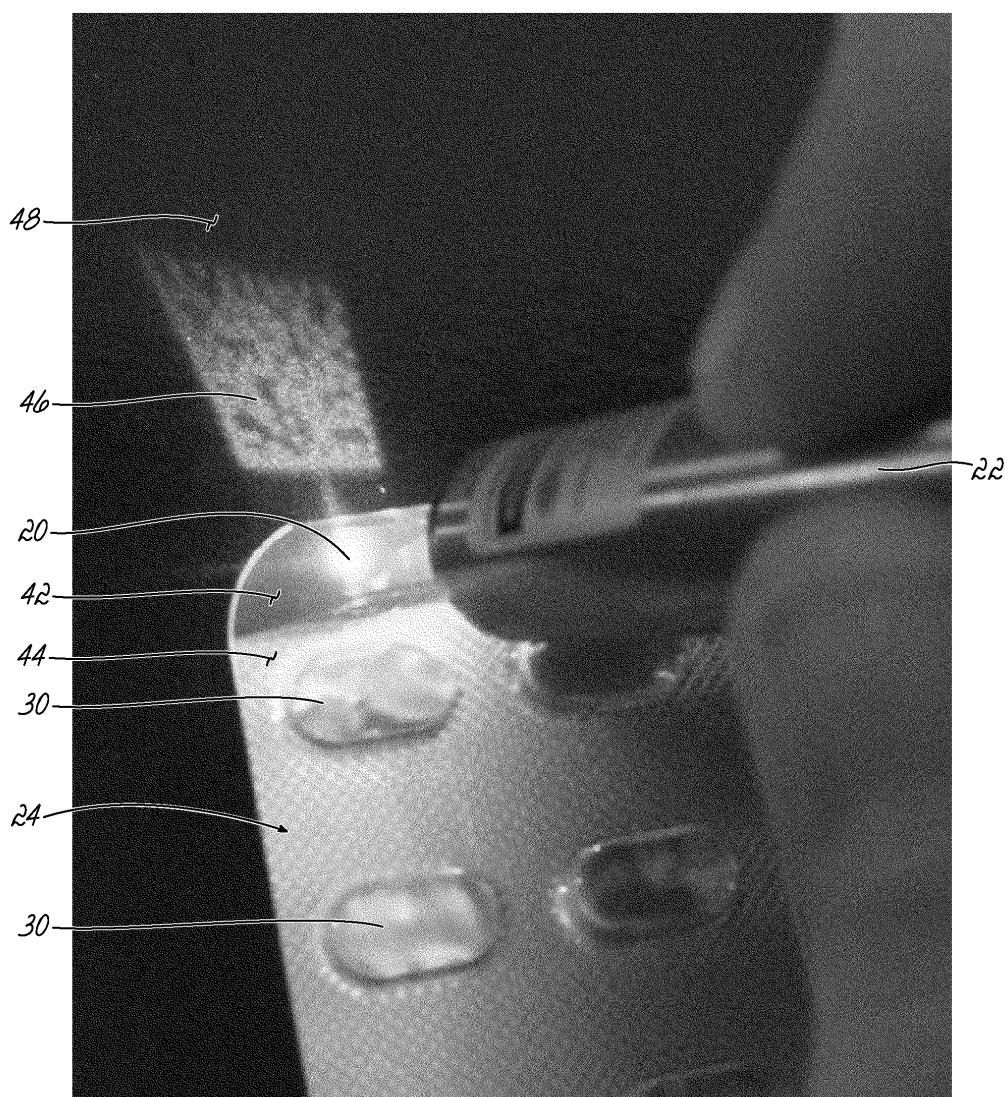
A & R CARTON

Family 14/20 - FAMPAT - ©Questel

Title

(WO2015103396)

Pharmaceutical product packaging to prevent counterfeits

Images**Publication numbers with kind code & date**

IN201637024778	A	2016-08-26	IN201637024778
WO2015/103396	A1	2015-07-09	WO2015103396
US20150183257	A1	2015-07-02	US20150183257

**Abstract**

(WO2015/103396)

Pharmaceutical tablets and dosage forms are stored in a blister pack (24) or other type of packaging (24) which include additional anti-counterfeiting measures that are difficult to simulate and easy to reveal with a laser pointer (22). The blister pack (24) is embossed with a hidden security feature (20) including hidden information (46) that is revealed only when a laser beam is directed through the packaging (24) to be deflected at the hidden security feature (20). The hidden security feature (20) may also accompany other covert and/or overt security features, including multi-level hologram features (60, 78) embossed into the blister pack (24) at the same time as the hidden security feature (20).

Inventors

GLEDENNING PAUL

KLOCKE STEFAN

STUCK ALEXANDER

GERING THOMAS

Latest standardized assignees - inventors removed

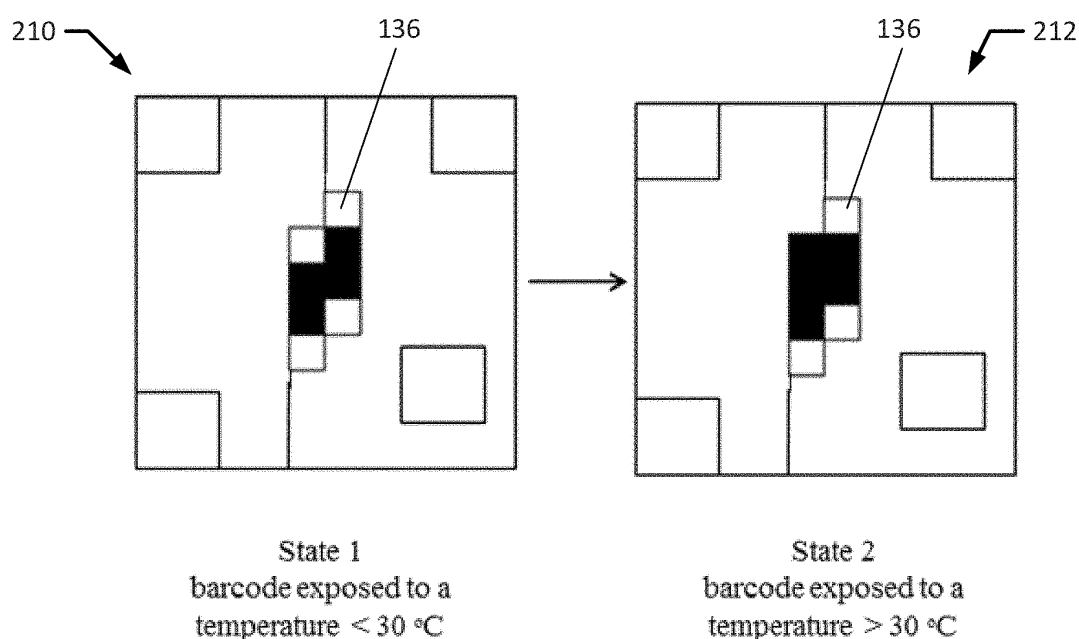
I PROPERTY HOLDING

Family 15/20 - FAMPAT - ©Questel

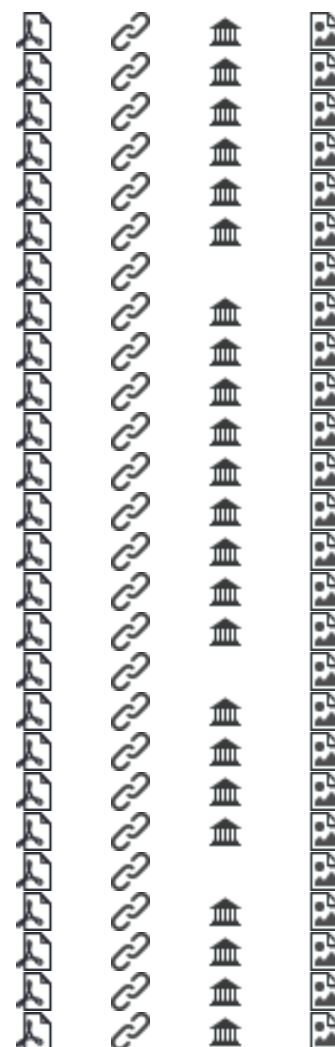
Title

(EP3278266)

A two dimensional barcode with dynamic environmental data system, method, and apparatus

Images**Publication numbers with kind code & date**

BR112019019502	A2	2020-04-28	BR112019019502
EP3602391	A1	2020-02-05	EP3602391
DE202018006287	U1	2020-01-30	DE202018006287
US10546172	B2	2020-01-28	US10546172
DE112018001462	T5	2019-11-28	DE112018001462
US20190362116	A1	2019-11-28	US20190362116
KR10-2019-0128228	A	2019-11-15	KR20190128228
CN110447036	A	2019-11-12	CN110447036
IN201917040313	A	2019-11-08	IN201917040313
AU2018239238	A2	2019-11-07	AU2018239238
AU2018239238	A1	2019-10-31	AU2018239238
BR112019019502	A1	2019-10-01	BR112019019502
US10318781	B2	2019-06-11	US10318781
EP3278266	A4	2018-12-12	EP3278266
CA3057307	A1	2018-09-27	CA3057307
WO2018/175281	A1	2018-09-27	WO2018175281
HK1245458	A1	2018-08-24	HK1245458
JP2018517199	A	2018-06-28	JP2018517199
CN107851173	A	2018-03-27	CN107851173
EP3278266	A1	2018-02-07	EP3278266
IN201717033879	A	2017-12-08	IN201717033879
KR20170130478	A	2017-11-28	KR20170130478
US20170193260	A1	2017-07-06	US20170193260
WO2016/160912	A4	2016-11-17	WO2016160912
US20160292486	A1	2016-10-06	US20160292486
WO2016/160912	A1	2016-10-06	WO2016160912



Abstract

(EP3278266)

Methods, systems, and apparatus for combining preprinted information together with coded sensor information within a two-dimensional barcode. The sensor information may be of an environmental, physical or biological nature, and records a change in status of the environmental or biological condition to which the labeled product has been exposed. A sensor dye chemistry is employed and when a specified condition of the sensed property occurs it causes a change in the color state of sensor dye modules embedded within the sensor-augmented two-dimensional barcode, encoding sensor digital information. Sensor information is recovered utilizing the error-correction feature during barcode reading.

Inventors

PRUSIK THADDEUS

ABDO MOHANNAD

HOHBERGER CLIVE

Latest standardized assignees - inventors removed

TEMPTIME

Family 16/20 - FAMPAT - ©Questel

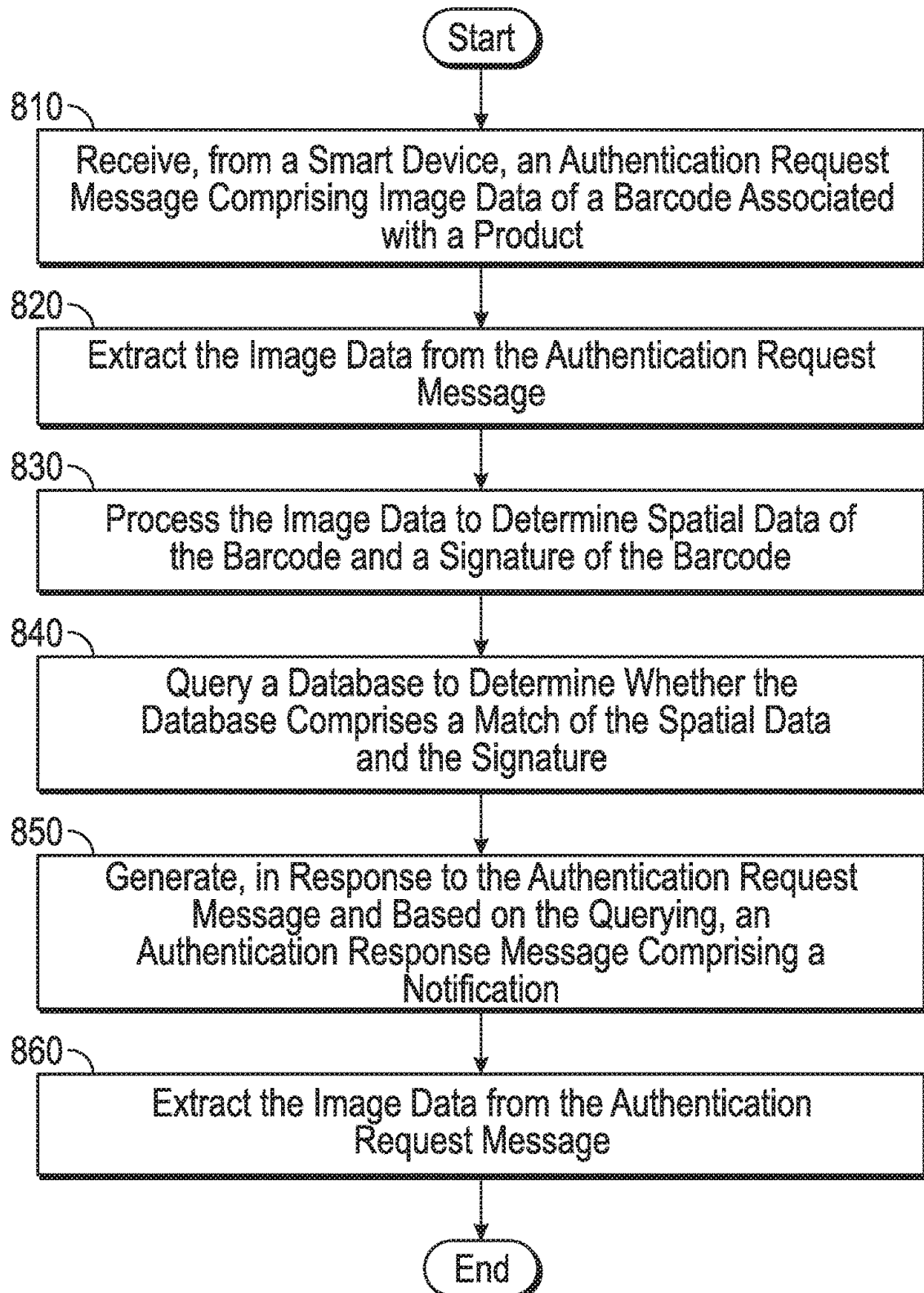
Title

(US10713663)

Product authentication using barcode characteristics

Images

800 →



[US20170286735](#)

A1

2017-10-05

US20170286735

**Abstract**

(US20170286735)

An apparatus comprising: a memory; and a processor coupled to the memory and configured to: obtain an image of a barcode from a product, wherein the barcode comprises a signature; obtain a notification associated with authentication of the product based on the signature; and provide the notification as an audio, a video, or a combination of audio and video. A method comprising: obtaining a smart device; coupling a scanner system to the smart device; obtaining a product comprising a barcode; scanning, using the scanner system, the barcode to obtain an image of the barcode, wherein the barcode comprises a signature; and obtaining, using the smart device and based on the signature, a notification associated with authentication of the product.

Inventors

Lazzouni Mohamed

Ewin Will

Kawabata Jamie

Latest standardized assignees - inventors removed

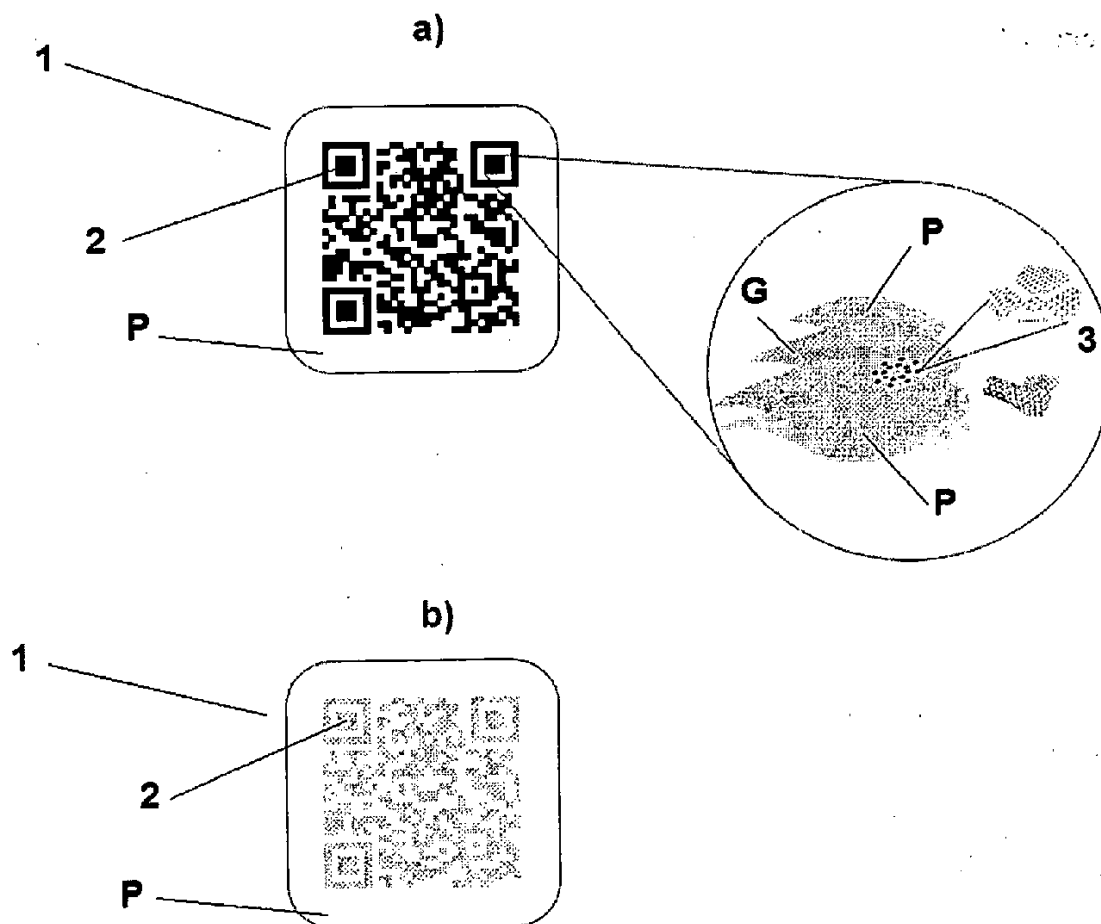
AUTHENTIX

Family 17/20 - FAMPAT - ©Questel

Title

(EP3151168)

Security feature against forgery, in particular for high-value products, product authentication method and product authentication system

Images**Fig. 1****Publication numbers with kind code & date**[EP3151168](#)

A1 2017-04-05

EP3151168

**Abstract**

(EP3151168)

The present invention is a security feature (1) against counterfeiting, in particular for high-value products, comprising a graphic code (2) disposed on a graphene nanocomposite material layer, said graphene nanocomposite material layer comprises at least one layer of graphene (G-DG) disposed on an adhesive layer (P), preferably a polymer. The invention also includes system and method for authenticating a product using such a feature.

Inventors

NAWROCKI PIOTR

Latest standardized assignees - inventors removed

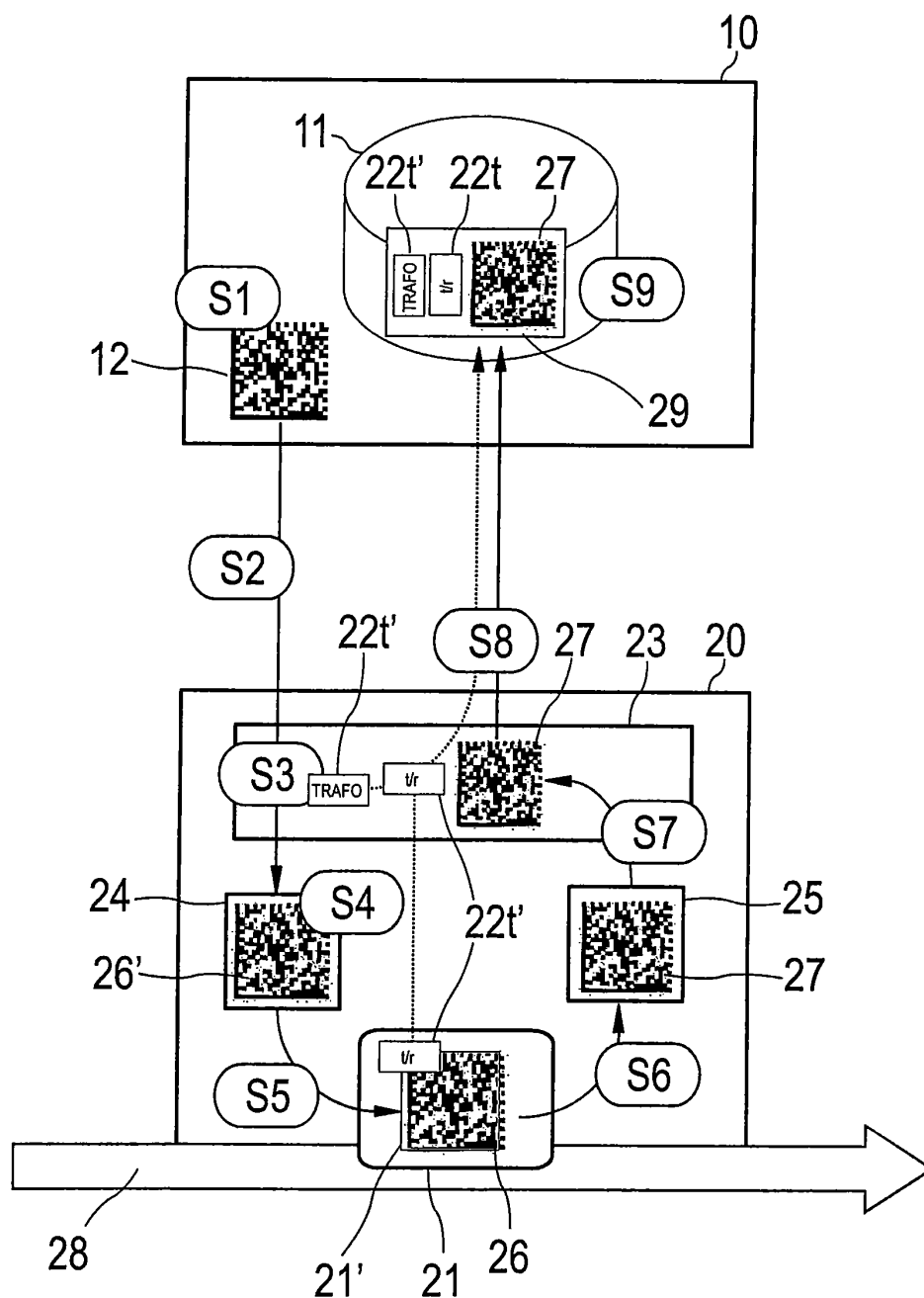
RYBKA WOJCIECH

Family 18/20 - FAMPAT - ©Questel

Title

(EP2465078)

Secure identification of a product

Images**Publication numbers with kind code & date**

IN330092	B	2020-01-23	IN-330092
EP2465078	B1	2016-11-09	EP2465078
US9224087	B2	2015-12-29	US9224087
IN1435/CHENP/2012	A	2012-10-26	IN2012CN01435
CN102576423	A	2012-07-11	CN102576423
EP2465078	A1	2012-06-20	EP2465078
US20120141660	A1	2012-06-07	US20120141660
DE102009037626	A1	2011-02-17	DE102009037626
WO2011/018523	A1	2011-02-17	WO201118523



[WO2011/018523](#)

A1

2011-02-17

WO201118523

**Abstract**

(EP2465078)

In a method for identifying a product, first a product identification (12) is created (S1) and applied (S5) onto the product (21). Then, the product identification (26) applied onto the product (21) is captured (S6) and stored (S8, S9) in a product database (11). In particular an independent authenticity feature (22) is also determined (S3, S5) and applied (S6) onto the product (21) together with the product identification (26) and stored (S8, S9) in the product database (11).

Inventors

FIEDLER MICHAEL

Latest standardized assignees - inventors removed

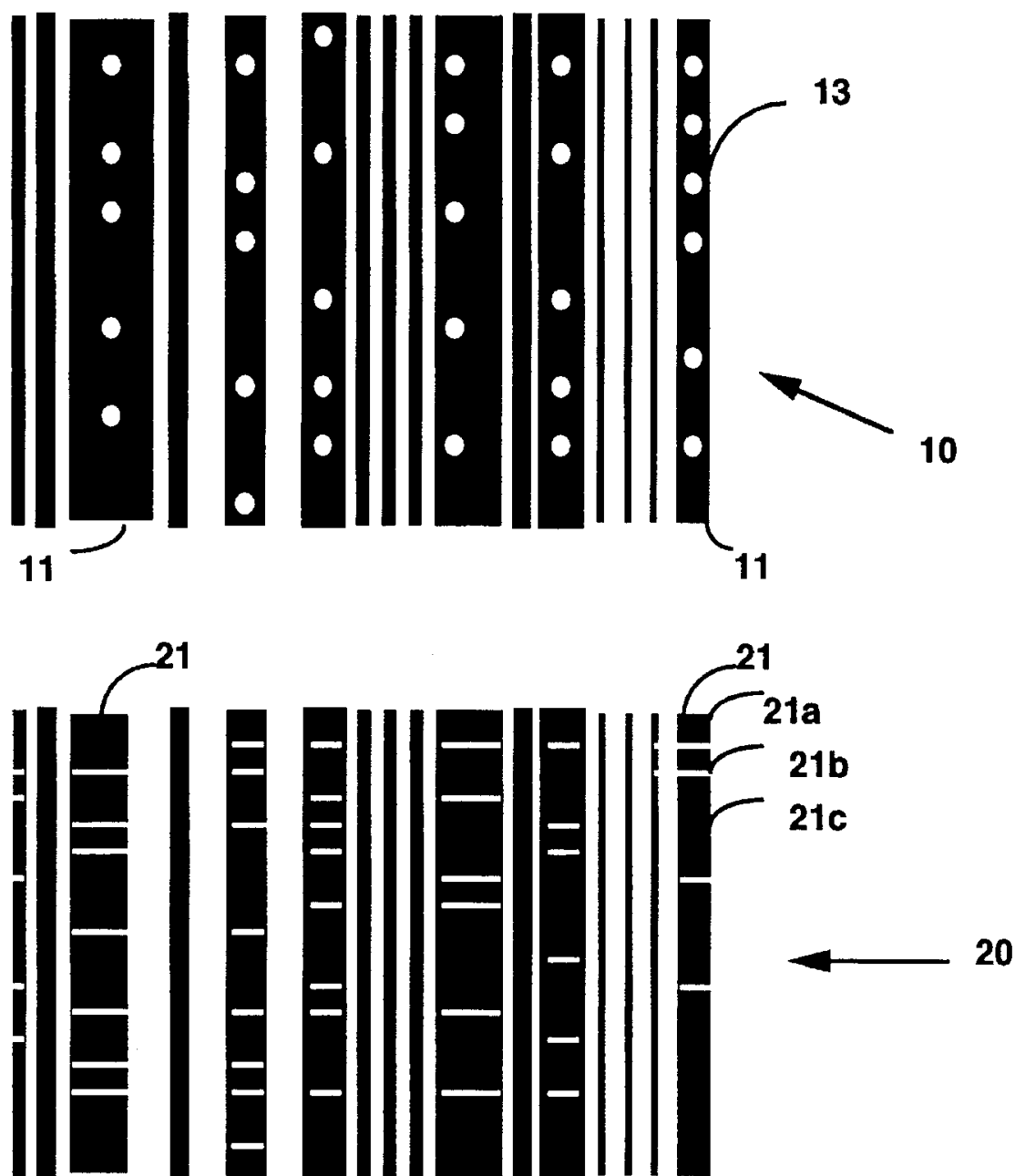
GIESECKE & DEVRIENT CURRENCY TECHNOLOGY

Family 19/20 - FAMPAT - ©Questel

Title

(US5563401)

Bar codes and methods

Images**Publication numbers with kind code & date**

US6032861	A	2000-03-07	US6032861
US5563401	A	1996-10-08	US5563401

**Abstract**

(US5563401)

Improvements in product and production codes and methods for reading same. In one form a bar code is provided wherein one or more of the individual bars of the code are printed or otherwise formed with coded information recorded therein. The bars may be made of printed matter and either divided into code defining segments or voids therein defining readable auxiliary information. In another form, the bars may be printed of magnetic recording material containing magnetic recordings therein of readable auxiliary information. The auxiliary information may be read when the bars are scanned for their coded information or without scanning the bars for the bar code. Reading may be by scanning a path or paths

extending normal or oblique to the bars or in a direction parallel to or longitudinally along one or more of the bars to provided substantial additional information, if needed.

Inventors

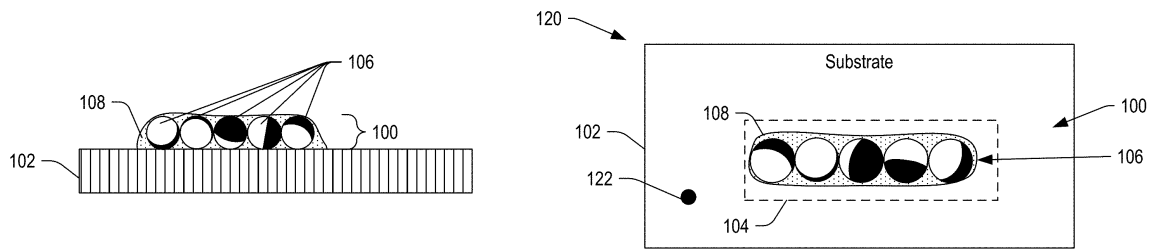
LEMELSON JEROME H

Family 20/20 - FAMPAT - ©Questel

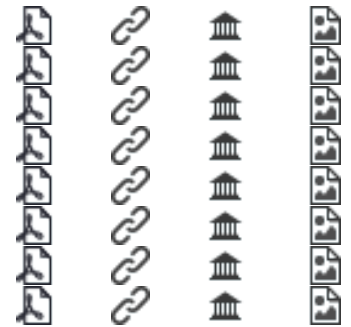
Title

(EP3353717)

Three-dimensional authentication and identification methods, devices, and systems

Images**Publication numbers with kind code & date**

EP3353717	B1	2020-06-03	EP3353717
US10402831	B2	2019-09-03	US10402831
EP3353717	A4	2019-03-06	EP3353717
US20180374103	A1	2018-12-27	US20180374103
EP3353717	A1	2018-08-01	EP3353717
US9898744	B2	2018-02-20	US9898744
US20170091783	A1	2017-03-30	US20170091783
WO2017/053106	A1	2017-03-30	WO201753106

**Abstract**

(EP3353717)

In some embodiments, an apparatus includes a tag that may include an encapsulant and a plurality of three-dimensional objects randomly oriented within the encapsulant. Each three-dimensional object may include a plurality of characteristics defining at least one statistically unique signature. At least one of the characteristics may be dependent on the orientation of the object. In some instances, the plurality of three-dimensional objects may also be randomly distributed within the encapsulant, and at least one of the characteristics defining at least one statistically unique signature may be dependent on the distribution of the objects.

Inventors

MANCEVSKI VLADIMIR

MCCLURE PAUL FREDERICK

BRUNO FRANK NICHOLAS

Latest standardized assignees - inventors removed

AUTHENTICATE