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Search query (2): [SP]: 1. a glass sheet comprising a symbol marked in an interior of the glass, the symbol forming a code wherein the symbol is marked in at least two dimensions including a dimension of a thickness of the glass sheet, portions of the symbol being marked at various depths in the thickness of the glass sheet such that the symbol is readable both via a main face of the glass sheet and via an edge face of the glass sheet. 2. the glass sheet as claimed in claim 1, wherein each portion of the symbol is at a unique depth that is different from the depth of other rows and other columns, respectively, of the symbol. 3. the glass sheet as claimed in claim 1, wherein the various portions correspond to a sectioning of the symbol into various sections that are rectilinear and parallel. 4. the glass sheet as claimed in claim 3, wherein at least certain sections correspond to rows or columns of the symbol. 5. the glass sheet as claimed in claim 1, wherein the symbol is two-dimensional and of the data matrix, qr code or analogous type. 6. the glass sheet as claimed in claim 1, wherein the symbol is parallel or perpendicular to the closest edge face of the glass sheet. 7. the glass sheet as claimed in claim 1, wherein the symbol is marked in a plane inclined relative to the edge face of the glass sheet and to the main face of the glass sheet such that the symbol is identically readable both via the main face of the glass sheet and via the edge face of the glass sheet. 8. the glass sheet as claimed in claim 7, wherein said inclined plane is at 45 degrees to said edge face of the glass sheet and to said main face of the glass sheet. 9. a method for marking a symbol forming a code in a glass sheet, comprising: marking a first portion of the symbol at a first depth in a thickness of the glass sheet, and marking a second portion of the symbol at a second depth in the thickness of the glass sheet, said second depth being different to the first depth, the marking of the second portion being offset from the marking of the first portion in another dimension of the glass sheet. 10. a process for manufacturing a glazing product comprising a glass sheet as claimed in claim 1, comprising reading the code via the main face of the glass sheet, at a first moment during manufacture, and reading the code via the edge face, at a second moment during manufacture. 11. the method as claimed in claim 9, wherein the other dimension of the glass sheet is a width or a length dimension. 12. the process as claimed in claim 10, wherein the first moment is a moment when the glass sheet is not stacked with other glass sheets and the second moment is a moment when the glass sheet forms part of a stack of glass sheets.

Results: 5**1) Family number: 60157848** (US2017008798A)

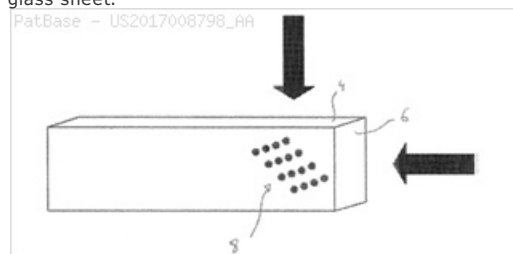
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Title: GLASS SHEET WITH IDENTIFICATION CODE

Abstract: Source: US2017008798A A glass sheet includes a symbol marked in the interior of the glass, the symbol forming a code. The symbol is marked in at least two dimensions including the dimension of the thickness of the glass sheet, portions of the symbol being marked at various depths in the thickness of the glass sheet.

Classifications:

International (IPC 8-9): B23K26/00 B23K26/362 B23K26/53
B41M3/00 B41M5/26 C03C23/00 G06K19/06 G09F3/00
G09F3/02 (Advanced/Invention);
B23K103/00 (Advanced/Non-invention)
CPC: B23K2203/54 B41M3/003 B23K26/362 C03C23/0025
B23K26/0006 B23K26/53 B41M5/262 B23K26/361
US: 428/156

**Family:**

Publication number	Publication date	Application number	Application date
CA2937389 AA	20160719	CA20142937389	20141219
CN106061746 A	20161026	CN201480075323	20141219
CO20160000729 A2	20161021	CO20160000729	20160808
EA201691605 A1	20170130	EA20160091605	20141219
EP3105063 A1	20161221	EP20140833585	20141219
FR3017483 A1	20150814	FR20140051028	20140211
IN201617026488 A	20160831	IN201617026488	20160803
JP2017507889 T2	20170323	JP20160551236T	20141219
KR20160119822 A	20161014	KR20167024693	20141219
MX2016010400 A1	20161017	MX20160010400	20141219
US2017008798 AA	20170112	US20140117799	20141219
WO15121548 A1	20150820	WO2014FR53480	20141219

Priority:

FR20140051028 20140211 WO2014FR53480 20141219

Probable Assignee: SAINT GOBAIN GLASS FRANCE**Assignee(s):** (std): SAINT GOBAIN ; SAINT GOBAIN GLASS FRANCE ; SAINT GOBAIN LINAK AS ; SAINT GOBAIN SA**Assignee(s):** DUBOST BRICE ; MIMOUN EMMANUEL**Inventor(s):** (std): BRICE DUBOST ; DUBOST BRICE ; EMMANUEL MIMOUN ; MIMOUN EMMANUEL**Agent(s):** GOUDREAU GAGE DUBUC ; MARGARITA CASTELLANOS ABONDANO; SAINT GOBAIN RECHERCHE; AOKI ATSUSHI; KOGA TETSUJI; ISHIDA TAKASHI

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

2) Family number: 30776492 (US2006258387A)

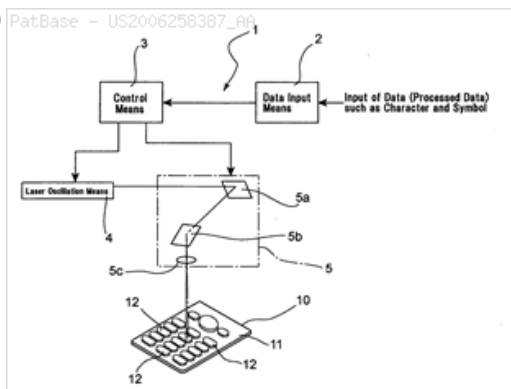
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Title: GLASS KEY TOP, KEY TOP MARKING METHOD, AND METHOD FOR MANUFACTURING KEY UNIT USING THE SAME

Abstract: Source: US2006258387A There are provided a glass key having a character or symbol marked in an enduring state and a marking method for creating such a glass key. A glass key has a character or a symbol marked on the surface or in the glass medium of the key top. A laser beam belonging to an infrared band having a wavelength of about 1100 nm or below, visible light band, or ultraviolet light band is intermittently applied while focused on the surface of the transparent glass key top or inside of the key top including the upper position, intermediate position, lower position, or other desired position, so that a plenty of fine cracks are formed as a set to represent a character or a symbol.

Classifications:

International (IPC 8-9): G06F3/02 H01H11/00 H01H13/14 H01H13/70 H01H13/83 H04M1/00 (Advanced/Invention);
G06F3/02 H01H11/00 H01H13/70 (Advanced/Non-invention);
G06F3/02 H01H11/00 H01H13/70 H04M1/00 (Core/Invention)
International (IPC 1-7): G06F3/02 H01H 3 / 12 H01H11/00 H01H13/70 H01H3/12
CPC: B41M5/262 H01H13/70 H01H2009/187 H01H2221/07 Y10T29/49105 B23K26/40 B23K2203/50
European: B23K26/40B11B H01H13/70 T01H221/070 T01H9/18F
US: 200/314 29/622 455/550.1 455/550.100P



Family:

Publication number	Publication date	Application number	Application date
AU2003284471 AA	20040823	AU20030284471	20031127
BRPI0318074 A	20051227	BR2003PI18074	20031127
CN1732425 A	20060208	CN200380107960	20031127
EP1589404 A1	20051026	EP20030775928	20031127
EP1589404 A4	20081224	EP20030775928	20031127
JP2004068328 A1	20060525	JP20040567569T	20031127
KR20050095864 A	20051004	KR20057013586	20031127
MXPA05007983 A1	20060127	MX2005PA07983	20031127
TH65687 A	20041220	TH20031004735	20031215
US2006258387 AA	20061116	US20030541659	20031127
US7531765 BB	20090512	US20030541659	20031127
WO04068328 A1	20040812	WO2003JP15175	20031127

Priority:

JP20030021274 20030130 WO2003JP15175 20031127

Probable Assignee: SUNARROW LTD

Assignee(s): (std): KOMAGATA KATSUYA ; SUNARROW LTD

Assignee(s): SUNARROW LIMITED

Inventor(s): (std): KATSUYA KOMAGATA ; KOMAGATA KATSUYA

Agent(s): HEDMAN AND COSTIGAN PC; COSTIGAN JAMES V; JAMES V

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

3) Family number: 34352826 (US2008304525A)

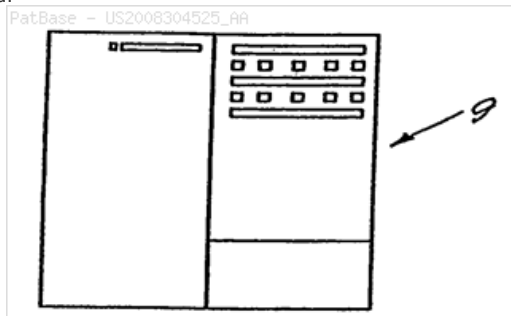
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Title: METHOD FOR INTERNAL LASER MARKING IN TRANSPARENT MATERIALS AND DEVICE FOR IMPLEMENTING SAID METHOD

Abstract: Source: US2008304525A The invention concerns a method for internal laser marking in transparent materials, for example for marking an identifier (5) for an object made of transparent material (6). The invention is characterized in that a diode-pumped femtosecond laser source (1) is used for non-aggressive high-contrast marking to generate laser pulses (13) which are successively focused on different points (23) of the marking (5) to be produced and enabling high-speed marking operations, typically faster than 0.1 mm² per second to be performed.

Classifications:

International (IPC 8-9): B41J2/47 B41M5/26 H01S3/00 H01S3/13 (Advanced/Invention);
B41J2/435 B41M5/26 H01S3/00 H01S3/13 (Core/Invention)
International (IPC 1-7): B41M5/26 H01S3/00
CPC: B41M5/262
European: B41M5/26B
US: 347/225 347/225S 372/30 372/30P



Family:

Publication number	Publication date	Application number	Application date
BE1016782 AD	20070605	BE20050000463	20050922
DE602006033496 D1	20130131	DE200660033496T	20060922
DK1926603 T3	20130218	DK20060790463T	20060922
EP1926603 A1	20080604	EP20060790463	20060922
EP1926603 B1	20121205	EP20060790463	20060922
ES2402267 T3	20130430	ES20060790463T	20060922
US2008304525 AA	20081211	US20060992299	20060922
WO07033445 A1	20070329	WO2006BE00105	20060922
WO07033445 C1	20080522	WO2006BE00105	20060922

Priority:

BE20050000463 20050922

EP20060790463 20060922

WO2006BE00105 20060922

Probable Assignee: TRACKINSIDE SOC ANONYME**Assignee(s):** (std): AMPLITUDES SYSTEMES SA ; AMPLITUDES SYSTEMS S A ; COSTET S A ; COSTET S A S ; COSTET SA ; KS TECH S A EN ABREGE KST S A ; KS TECH SA ; KS TECH S A ; KUPISIEWICZ AXEL ; LASER ENGINEERING APPLIC S A E ; SOLOS IDENTIFICAZIONE E PROTEZ ; MOTTAY ERIC ; LASER ENGINEERING APPLIC ; SOLOS ; TOTAL BRAND SECURITY LTD ; LASER ENGINEERING APPLIC S A ; TOTAL BRAND SECURITY LTD EN AB ; TRACKINSIDE SA**Assignee(s):** TRACKINSIDE SOC ; TRACKINSIDE SOC ANONYME ; TOTAL BRAND SECURITY LTD TBS ; TRACKINSIDE SOCIETE ANONYME ; LASER ENGINEERING APPLICATIONS S A EN ABREGE LASEA S A ; SOLOS IDENTIFICAZIONE E PROTEZIONE S R L EN ABREGE SOLOS S R L ; SOLOS IDENTIFICAZIONE E PROTEZIONE SRL EN ABREGE SOLOS SRL ; TOTAL BRAND SECURITY LTD EN ABREGE TBS LTD ; SOLOS IDENTIFICAZIONE E PROTEZIONE SRL ; LASER ENGINEERING APPLICATIONS SA ; LASER ENGINEERING APPLICATIONS S A ; LASER ENGINEERING APPLICATIONS LASEO ; SOLOS IDENTIFICAZIONE E PROTEZIONE SRL SOLOS ; LASER ENGINEERING APPLICATIONS EN ABREGE LASEA SA ; SOLOS IDENTIFICAZIONE E PROTEZIONE SRL EN ABREGE S ; LASER ENGINEERING APPLICATIONS S A EN ABREGE LASEA ; SOLOS IDENTIFICAZIONE E PROTEZIONE S R L EN ABREGE ; COSTET SAS ; KS TECHNIQUES S A ; KS TECHNIQUES SA ; KS TECHNIQUES S A EN ABREGE KST S A ; KS TECHNIQUES EN ABREGE KST SA ; AMPLITUDES SYSTEMS SA**Inventor(s):** (std): KUPISIEWICZ AXEL ; MOTTAY ERIC**Agent(s):** MOTSCH AND SEITZ; DONNE EDDY; TOMAS TESIFONTE ENRIQUE; BACON AND THOMAS PLLC**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**4) Family number: 52530586 (US2014094948A)**

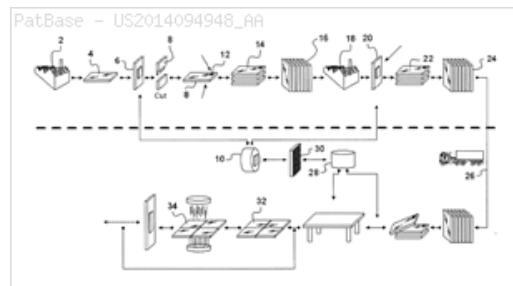
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Title: PROCESS FOR CUTTING ONE OR MORE GLAZINGS**Abstract:** Source: US2014094948A A process for cutting several pieces of glass from at least one glass sheet, includes reading information relating to defects in the at least one glass sheet; and automatically and dynamically generating an optimum cutting layout for each of the at least one glass sheet as a function of at least some of the information relating to the defects.**Classifications:****International (IPC 8-9):** C03B33/037 G05B19/18

G06F17/50 (Advanced/Invention)

CPC: G06F17/50 G05B19/182 C03B33/037 G05B2219/35162

Y02P80/40

European: C03B33/037**US:** 700/106**Family:**

Publication number	Publication date	Application number	Application date
CN103702954 A	20140402	CN201280037376	20120522
EP2714602 A1	20140409	EP20120729680	20120522
FR2975687 A1	20121130	FR20110001653	20110527
IN02231MN2013 A	20141031	IN2013MN02231	20131128
JP2014520058 T2	20140821	JP20140513228T	20120522
KR20140034849 A	20140320	KR20137034133	20120522
US2014094948 AA	20140403	US20120122504	20120522
WO12164200 A1	20121206	WO2012FR51135	20120522

Priority:

FR20110001653 20110527

WO2012FR51135 20120522

Probable Assignee: SAINT GOBAIN GLASS FRANCE**Assignee(s):** (std): BILLERT ULRICH ; PEYRUDE ANTOINE ; SAINT GOBAIN ; SAINT GOBAIN LINAK AS ; SAINT GOBAIN SA**Assignee(s):** SAINT GOBAIN GLASS FRANCE**Inventor(s):** (std): BILLERT ULRICH ; PEYRUDE ANTOINE**Inventor(s):** ULRICH BILLERT ; ANTOINE PEYRUDE**Agent(s):** NEUVIALE BERTRAND; SAINT GOBAIN RECHERCHE; AOKI ATSUSHI; KOGA TETSUJI; ISHIDA TAKASHI**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**5) Family number: 52591995 (US2014353381A)**

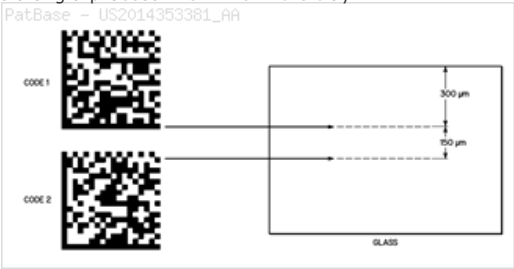
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Title: 3D LASER CODING IN GLASS**Abstract:** Source: US2014353381A This inventive method assures the authenticity of drugs or other valuable substances that reside within product containers, such as syringes. The method includes initially measuring the 3D topology of the glass surface while determining the distance to the glass surface. Thereafter, a desired 3D code is written below the glass surface

with a pulsed laser system. The written 3D code is readable using optical coherence topography (OCT) or parallel optical coherence tomography (pOCT) to verify the authenticity of the product container. A system uses this method with a plurality of syringes held within a tray, and a writing apparatus that moves relative to the tray to write a predetermined 3D code on each of the syringes held in the tray, during processing of the syringes along a process line while in the tray.

Classifications:

International (IPC 8-9): B23K26/00 B23K26/04 B41J2/44 B41M3/14 B41M5/26 C03C23/00 G06K1/12 G06K19/06 G06K7/10 G06K7/14 H01S3/13 (Advanced/Invention); B41M3/14 (Advanced/Non-invention)
CPC: G06K19/06037 G06K19/06093 G06K7/10861 G06K7/1417 G06K7/1426 B41J2/442 B23K26/0006 B23K26/048 B23K2203/42 B23K2203/50 B41M3/14 B41M5/262 G06K1/126
US: 1/1 235/462.11 235/494 347/262



Family:

Publication number	Publication date	Application number	Application date
EP2721698 A1	20140423	EP20120801088	20120618
EP2721698 A4	20141217	EP20120801088	20120618
US2014353381 AA	20141204	US20120125505	20120618
US9378445 BB	20160628	US20120125505	20120618
WO12174545 A1	20121220	WO2012US42976	20120618

Priority:

US20110498119P 20110617 US20120125505 20120618 US20120659480P 20120614
WO2012US42976 20120618

Probable Assignee: PROPERTY HOLDING CORP I

Assignee(s): (std): GLENDENNING PAUL ; KLOCKE STEFAN ; PROPERTY HOLDING CORP I ; STUCK ALEXANDER

Assignee(s): I PROPERTY HOLDING CORP

Inventor(s): (std): GLENDENNING PAUL ; KLOCKE STEFAN ; STUCK ALEXANDER

Agent(s): FECHNER THOMAS; WOOD HERRON AND EVANS LLP; BURGER THOMAS J ET AL

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