

NC2016/0001174

1er examen de fondo.

Search history

Search PN=(US2007087549 OR US2007252293 OR US2006262398 OR US2012168065 OR US2011084424 OR US2010283957 OR US200837101
1: OR US2007217008) (Results 7)

Title: POLARIZATION CONTROL DEVICE

Abstract: Source: US2006262398A A polarization control device includes a support substrate on which a metal compound structure is formed. The metal compound structure is formed with at least two metal fine structures arranged periodically in a range equal to or smaller than a wavelength of an incident light.

Classifications:

International (IPC 8-9): G02B1/02 G02B27/28 G02B3/00 G02B5/18

G02B5/30 G02F1/1335 G02F1/13363 (Advanced/Invention);

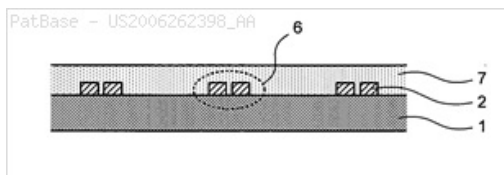
G02B1/00 G02B27/28 G02B3/00 G02B5/18 G02B5/30

G02F1/13 (Core/Invention)

CPC: G02B5/3058

European: G02B5/30P2

US: 359/483 359/485 359/485.01 359/485.05 359/485.050P 359/486 359/489.06 359/489.060S



Family:

Publication number	Publication date	Application number	Application date
JP2006330105 A2	20061207	JP20050150072	20050523
JP2006330106 A2	20061207	JP20050150073	20050523
JP2006330107 A2	20061207	JP20050150074	20050523
JP2006330108 A2	20061207	JP20050150075	20050523
JP4589804 B2	20101201	JP20050150072	20050523
JP4589805 B2	20101201	JP20050150073	20050523
JP4634220 B2	20110223	JP20050150074	20050523
JP4634220 B2	20110216	JP20050150074	20050523
JP4634220 B2	20110223	JP20050150074	20050523
JP4680677 B2	20110511	JP20050150075	20050523
US2006262398 AA	20061123	US20060438716	20060522
US7630132 BB	20091208	US20060438716	20060522

Priority:

JP20050150072 20050523 JP20050150073 20050523 JP20050150074 20050523
JP20050150075 20050523

Probable Assignee: RICOH CO LTD

Assignee(s): (std): FUKUDA HIROAKI ; ITOH IZUMI ; RICOH KK ; SANGU SUGURU ; TERASHI TAROH ; TAKAHASHI JUNICHI ; TAKADA MASATO

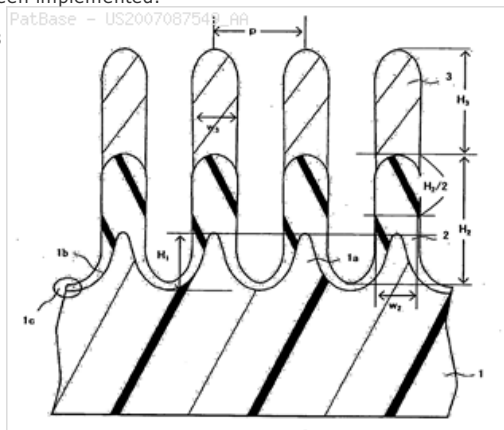
Assignee(s): RICOH CO LTD ; RICOH COMPANY LTD

Inventor(s): (std): FUKUDA HIROAKI ; ITO IZUMI ; ITOH IZUMI ; SANGU SUGURU ; SANNOMIYA TAKASHI ; TAKADA MASAHITO ; TAKADA MASATO ; TAKAHASHI JUNICHI ; TERASHI TAROH ; TERU TAROU

Agent(s): COOPER AND DUNHAM LLP

Title: METHOD OF MANUFACTURING A WIRE GRID POLARIZER**Abstract:** Source: US2007087549A A dielectric layer 2 is formed on a region including grid-shaped convex portions 1 a of a resin substrate 1 having the grid-shaped convex portions 1 a with pitches of 80 nm to 120 nm on its surface, and metal wires 3 are formed on the dielectric layer 2. It is thereby possible to obtain a wire grid polarizer having a microstructural concavo-convex grid with pitches of the level of 120 nm or less that has not been implemented.**Classifications:****International (IPC 8-9):** B05D5/06 C03C17/00 C23C16/00 G02B1/08 G02B1/10 G02B5/18 G02B5/30 G02F1/13 G02F1/1335 G03B21/00 G03B21/14 H01L21/44 (Advanced/Invention); G02B5/18 G02B5/30 (Advanced/Non-invention); G02B1/08 G02B5/18 G02B5/30 G02F1/13 G03B21/00 G03B21/14 H01L21/02 (Core/Invention); G02B5/30 (Core/Non-invention)**CPC:** G02B5/3058 G02F1/133528 G02F1/133536 G02F2001/133548**European:** G02B5/30P2 G02F1/1335P5 S02F1/1335P

S02F1/1335P11

US: 349/96 349/96P 359/485.05 359/485.050S 359/486 359/486S 359/487.03 359/487.030S 427/162 427/163.1 427/164 427/165 427/166 427/248.1 427/250 427/255.11 438/613**Family:**

Publication number	Publication date	Application number	Application date
CN1952700 A	20070425	CN200610136011	20061016
CN1952700 B	20100609	CN200610136011	20061016
DE602006031792 D1	20121025	DE200660031792T	20061016
EP1775607 A1	20070418	EP20060021627	20061016
EP2090909 A1	20090819	EP20090006387	20061016
EP2090909 A8	20100609	EP20090006387	20061016
EP2090909 B1	20120829	EP20090006387	20061016
JP2008083656 A2	20080410	JP20060272800	20061004
JP2008083657 A2	20080410	JP20060272801	20061004
JP4275691 B2	20090610	JP20060272800	20061004
JP4275692 B2	20090610	JP20060272801	20061004
KR100888303 B1	20090311	KR20080096740	20081001
KR100894939 B1	20090427	KR20060100128	20061016
KR20070042079 A	20070420	KR20060100128	20061016
KR20080101833 A	20081121	KR20080096740	20081001
TW200728786 A	20070801	TW20060138286	20061017
TWI321663 B	20100311	TW20060138286	20061017
US2007087549 AA	20070419	US20060580842	20061016
US2007242187 AA	20071018	US20060581410	20061017
US2008303986 AA	20081211	US20080081900	20080423
US7605883 BB	20091020	US20060581410	20061017
US7894019 BB	20110222	US20080081900	20080423
US8927056 BB	20150106	US20060580842	20061016

Priority:

EP20060021627	20061016	EP20090006387	20061016	JP20050301884	20051017
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JP20060272800	20061004	JP20060272801	20061004	US20060581410	20061017
US20080081900	20080423				

Probable Assignee: ASAHI KASEI KK**Assignee(s):** (std): ASAHI CHEMICAL CORP ; ASAHI CHEMICAL IND ; ASAHI KASEI CORP ; ASAHI KASEI E MATERIALS CORP ; KAWAZU YASUYUKI ; SATO YUSUKE ; YAMAKI HIROSHI ; NAMATAME TAKUJI**Assignee(s):** ASAHI KASEI KK**Inventor(s):** (std): HIROSHI YAMAKI ; KAWAZU YASUYUKI ; NAMATAME TAKUJI ; TAKUJI NAMATAME ; YAMAKI HIROSHI ; SATO YUSUKE ; YASUYUKI KAWAZU ; YASUYUKI YAMAKI HIROSHI SATO Y ; YUSUKE SATO**Inventor(s):** YAMAKI HIROSHI SATO YUSUKE NAMATAME TAKUJI ; YAMAKI HIROSHI SATO YUSUKE NAMATAME TAKUJI KAWAZU**Agent(s):** HOFFMANN EITL PATENT U RECHTSANWALTE PARTMBB; HOFFMANN EITL; FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER, LLP; FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER LLP**Designated states:** AL BA DE FR GB HR MK YU

Abstract: Source: US2007217008A In general, in one aspect, the invention features methods that include forming a roll of a first material into a substrate and forming a plurality of rows of a second material on the substrate, where the second material includes a metal, the rows of the second material extend along a first direction, the rows are spaced apart from one another, and adjacent rows are spaced apart by about 400 nm or less.

International (IPC 8-9): B29D11/00 G02B5/30 (Advanced/Invention); B29D11/00 G02B5/30 (Core/Invention)

European: G02B5/18D G02B5/30P G02B5/30P2

Publication number	Publication date	Application number	Application date
TW200736679 A	20071001	TW20070108880	20070315
US2007217008 AA	20070920	US20060378230	20060317
US2009152748 AA	20090618	US20090355705	20090116
WO07109469 A2	20070927	WO2007US63955	20070314
WO07109469 A3	20081127	WO2007US63955	20070314

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
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JP KE KG KM KN KP KR KZ LA LC LR LR LS LT LU LV LY MA MC MD MG MK ML MN MR MT MW MX MY MZ
NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ
TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: METHOD FOR MANUFACTURING AN OPTICAL FILM HAVING A CONVEXOCONCAVE STRUCTURE, OPTICAL FILM, WIRE GRID POLARIZER AND RETARDATION FILM

Abstract: Source: US2007252293A A manufacturing method of an optical film provided with a convexoconcaave structure, comprises the steps of: coating a resin solution including a first resin solved by a solvent onto an endless or roll-like mold provided with a convexoconcaave structure, and forming a resin solution layer on the mold; laminating a film substrate onto the resin solution layer to make a laminated film before the solvent in the resin solution layer is completely dried, the film substrate including a second resin, which is capable of absorbing the solution or is soluble by the solvent; and peeling the laminated film from the mold before the solvent in the laminated film is completely dried.

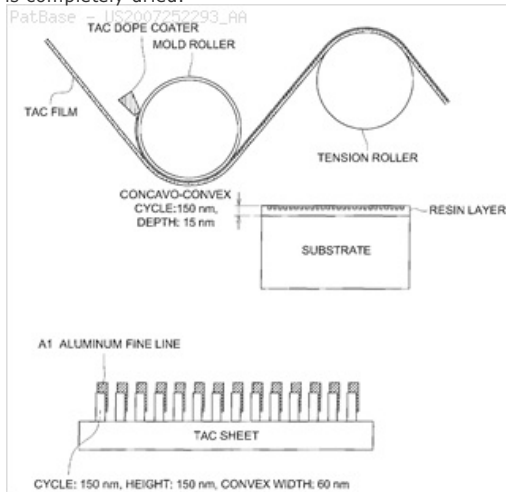
Classifications:

International (IPC 8-9): B29C39/20 B29C41/24 B29C41/28 B29C41/30 B29C41/32 B29D11/00 B29D7/01 B29K1/00 B29L11/00 B29L7/00 B29L9/00 C08J5/18 G02B5/02 G02B5/30 G02B5/32 (Advanced/Invention); B29K1/00 B29L11/00 B29L7/00 B29L9/00 (Advanced/Non-invention); B29C41/00 B29D11/00 B29D7/00 C08J5/18 G02B5/02 G02B5/30 G02B5/32 (Core/Invention)

CPC: B29C39/20 B29D11/0073 B29D11/00788 C08J5/18 G02B5/3058 G02B5/3083

European: B29C39/20 B29D11/00 B29D11/00H B29D11/00J7 C08J5/18 G02B5/30P2 G02B5/30R

US: 264/1.31 264/1.310P 264/1.34 264/1.6 264/1.7 264/13.1 264/216 264/217



Family:

Publication number	Publication date	Application number	Application date
CN101432113 A	20090513	CN200780014868	20070423
CN101432113 B	20120718	CN200780014868	20070423
EP2014436 A1	20090114	EP20070742159	20070423
EP2014436 A4	20120620	EP20070742159	20070423
JP2007313888 A2	20071206	JP20070112824	20070423
JP4894597 B2	20120314	JP20070112824	20070423
KR101323042 B1	20131029	KR20087026031	20070423
KR20080113259 A	20081229	KR20087026031	20070423
TW200808514 A	20080216	TW20070114837	20070426
TWI411512 B	20131011	TW20070114837	20070426
US2007252293 AA	20071101	US20070737199	20070419
US7854864 BB	20101221	US20070737199	20070419
WO07125857 A1	20071108	WO2007JP58724	20070423

Priority:

JP20060125333 20060428 JP20070112824 20070423 WO2007JP58724 20070423
US20070737199 20070419

Probable Assignee: KONICA MINOLTA OPTO INC

Assignee(s): (std): IWAGAKI MASARU ; KONICA MINOLTA ADVANCED LAYERS INC ; KONICA MINOLTA OPTO INC ; KOYAMA HIROKAZU ; KUBO NOBUO ; SATO HIROKAZU ; OKA SHIGEKI ; SATO AKIRA ; OHMORI SHIGETO ; TASAKA KOJI ; MURAKAMI TAKASHI ; MIYAZAWA KAZUHIRO

Inventor(s): (std): AKIRA SATO ; HIROKAZU KOYAMA ; HIROKAZU SATO ; IWAGAKI MASARU ; KAZUHIRO MIYAZAWA ; KOJI TASAKA ; KOYAMA HIROKAZU ; KUBO NOBUO ; MASARU IWAGAKI ; MIYAZAWA KAZUHIRO ; MURAKAMI TAKASHI ; NOBUO KUBO ; OHMORI SHIGETO ; OKA SHIGEKI ; OMORI SHIGETO ; SATO AKIRA ; SATO HIROKAZU ; SATO KOICHI ; SHIGEKI OKA ; SHIGETO OHMORI ; TAKASHI MURAKAMI ; TASAKA KOJI ; TASAKA MASAYUKI

Inventor(s): MIYAZAWA KAZUHIRO AND

Agent(s): HENKEL FEILER AND HAENZEL; LUCAS AND MERCANTI LLP

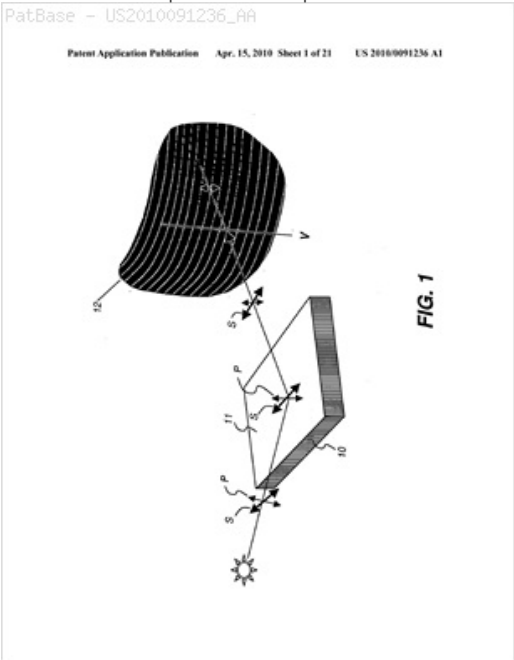
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MT MW MX MY MZ NA NE NG NI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

Title: POLARIZED EYEWEAR

Abstract: Source: US2010091236A An article of polarized eyewear has a lens with a first substrate lens material transparent to visible light and a pattern of elongated structures formed from at least a second material having a complex index of refraction that is deposited onto a curved surface of the first substrate lens material. The pitch between adjacent elongated structures is less than 300 nm and the width of each elongated structure is less than 90 percent of the pitch.

Classifications:

International (IPC 8-9): B29D11/00 G02B5/30
G02C7/12 (Advanced/Invention);
G02F1/1335 (Advanced/Non-invention);
B29D11/00 G02B5/30 G02C7/00 (Core/Invention)
CPC: B29D11/00634 G02B5/3058 G02C7/12 G02B5/23
European: B29D11/00F G02B5/23 G02B5/30P2 G02C7/12
US: 264/1.32 349/13 349/14 349/14S 351/159.6 351/163 351/44
351/49 351/49P



Family:

Publication number	Publication date	Application number	Application date
EP2277079 A1	20110126	EP20090726903	20090401
US2010091236 AA	20100415	US20080248342	20081009
US2010283957 AA	20101111	US20100838580	20100719
US7771045 BB	20100810	US20080248342	20081009
US8177358 BB	20120515	US20100838580	20100719
WO09124112 A1	20091008	WO2009US39090	20090401

Priority:

US20080042164P 20080403 US20080248342 20081009 US20100838580 20100719
WO2009US39090 20090401

Probable Assignee: SOL GRID LLC

Assignee(s): (std): KESSLER DAVID ; MATERA PASQUALE ; SOL GRID LLC

Inventor(s): (std): KESSLER DAVID ; MATERA PASQUALE

Agent(s): FERREIRA MARIA SILVINA; LOUIS S HORVATH; LOUIS S; KENEALY DAVID 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 CM CN CO CR CU
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Title: MOLD FOR NANOIMPRINTING, ITS PRODUCTION PROCESS, AND PROCESSES FOR PRODUCING MOLDED RESIN HAVING FINE CONCAVO-CONVEX STRUCTURE ON ITS SURFACE AND WIRE-GRID POLARIZER

Abstract: Source: US2011084424A To provide a mold for nanoimprinting capable of accurately transcribing a fine concavo-convex structure, available at a low cost and having high durability, its production process, and processes for producing a molded resin having a fine concavo-convex structure on its surface having the fine concavo-convex structure of the mold accurately transcribed, and a wire-grid polarizer, with high productivity. A mold 10 for nanoimprinting having on its mold surface a fine concavo-convex structure comprising a plurality of grooves 14 formed in parallel with one another at a constant pitch, which comprises a mold base 12 made of a resin having on its surface a fine concavo-convex structure to be the base of the fine concavo-convex structure, a metal oxide layer 16 covering the surface having the fine concavo-convex structure of the mold base 12, and a release layer 18 covering the surface of the metal oxide layer 16, is used.

Classifications:

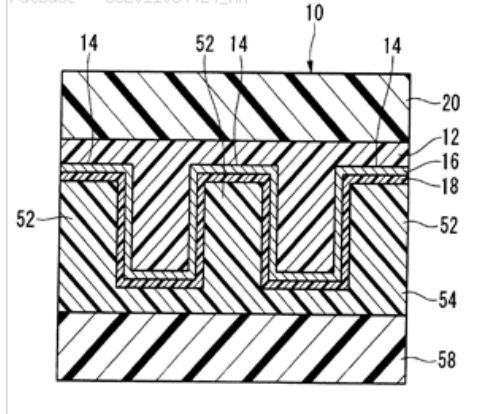
International (IPC 8-9): B29C33/38 B29C33/40 B29C33/42 B29C33/58 B29C59/02 B29D11/00 B29L11/00 B41M5/00 C23C14/34 G02B5/30 G03F7/00 H01L21/027 (Advanced/Invention); B29L11/00 B82Y30/00 B82Y40/00 (Advanced/Non-invention); B29C33/40 B29C33/42 B29C59/02 H01L21/02 (Core/Invention); B29C33/42 (Core/Non-invention)

CPC: G03F7/0002 B29C33/424 B29C33/56 B82Y10/00 B82Y40/00 B29C59/02 H01L21/0274

European: B29C33/42C B29C33/56 B82Y10/00 B82Y40/00 G03F7/00A

US: 204/192.15 264/1.34 264/219 264/293 264/293P 425/385 425/385S 977/900 977/900S 977/932

PatBase - US2011084424_AA



Family:

Publication number	Publication date	Application number	Application date
CN102046357 A	20110504	CN200980121189	20090604
CN102046357 B	20140625	CN200980121189	20090604
EP2286980 A1	20110223	EP20090758405	20090604
EP2286980 A4	20110713	EP20090758405	20090604
JP2009148138 A1	20111104	JP20100515925T	20090604
KR20110031275 A	20110325	KR20107026274	20090604
TW201008744 A	20100301	TW20090118755	20090605
TWI469858 B	20150121	TW20090118755	20090605
US2011084424 AA	20110414	US20100960071	20101203
US2012247950 AA	20121004	US20120467010	20120508
US8709317 BB	20140429	US20120467010	20120508
WO09148138 A1	20091210	WO2009JP60289	20090604

Priority:

JP20080148025 20080605 US20100960071 20101203 WO2009JP60289 20090604
US20120467010 20120508

Probable Assignee: ASAHI GLASS CO

Assignee(s): (std): KAIDA YURIKO ; MIYAGI TAKAHIRA ; SHIDOJI EIJI ; SAKAMOTO HIROSHI ; TAKAYAMA KOSUKE ; ASAHI GLASS CO LTD

Assignee(s): ASAHI GLASS COMPANY LIMITED ; ASAHI GLASS CO ; SHIDOJI EIJI ; TAKAYAMA KOSUKE ; SAKAMOTO HIROSHI ; ASAHI GLASS COMPANY LIMITEDJP ; ASAHI GLASS COMPANY LTD ; MIYAGI TAKAHIRA ; KAIDA YURIKO

Inventor(s): (std): EIJI SHIDOJI ; HIROSHI SAKAMOTO ; KAIDA YURIKO ; KOSUKE TAKAYAMA ; MIYAGI TAKAHIRA ; SAKAMOTO HIROSHI ; SHIDOJI EIJI ; TAKAHIRA MIYAGI ; TAKAYAMA KOSUKE ; YURIKO KAIDA

Inventor(s): TAKAYAMA KOSUKE ; SHIDOJI EIJI ; SAKAMOTO HIROSHI ; MIYAGI TAKAHIRA ; KAIDA YURIKO

Agent(s): EHLICH HENDRIK ; FOLEY AND LARDNER LLP ; SENMYO KENJI 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: PROCESS FOR PRODUCING ARTICLE HAVING FINE CONCAVO-CONVEX STRUCTURE ON ITS SURFACE AND PROCESS FOR PRODUCING WIRE-GRID POLARIZER

Abstract: Source: US2012168065A Processes for producing an article having a fine concavo-convex structure on the surface of a transparent substrate and a wire-grid polarizer, with high quality with high productivity, with which a concavo-convex layer having a large area can easily be achieved. The process comprises a step (I) of forming an interlayer (A) on the surface of a substrate film, a step (II) of forming a concavo-convex layer (B) having a fine concavo-convex structure on its surface, on the surface of the interlayer (A) by imprinting technology, and a step (IV) of separating a laminate comprising the interlayer (A) and the concavo-convex layer (B) from the substrate film and laminating the laminate to the surface of a transparent substrate so that the interlayer (A) faces the transparent substrate side. Further, a process for producing a wire-grid polarizer employing the production process.

Classifications:

International (IPC 8-9): B29C59/02 B29C65/48 B29D11/00

G02B1/02 G02B1/11 G02B5/30 G02F1/1335 G03F7/00

H01L21/027 (Advanced/Invention);

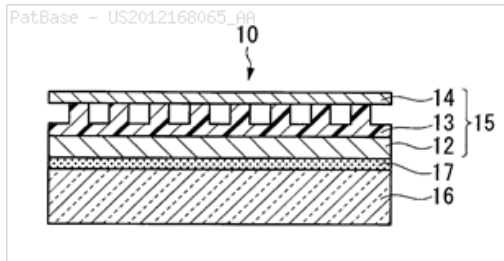
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CPC: B29D11/00644 B29D11/0073 G03F7/0002 G02B5/3058

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European: G02B5/30P2 S02F1/1335P11

US: 156/246



Family:

Publication number	Publication date	Application number	Application date
CN102472855 A	20120523	CN201080028831	20100630
CN102472855 B	20141105	CN201080028831	20100630
EP2450724 A1	20120509	EP20100794210	20100630
EP2450724 A4	20140108	EP20100794210	20100630
JP2011002042 A1	20121213	JP20110520970T	20100630
JP5273248 B1	20130828	JP20110520970T	20100630
JP5273248 B2	20130828	JP20110520970T	20100630
KR20120106923 A	20120927	KR20117028049	20100630
TW201109160 A	20110316	TW20100121664	20100701
TWI510354 B	20151201	TW20100121664	20100701
US2012168065 AA	20120705	US20110341039	20111230
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WO11002042 A1	20110106	WO2010JP61204	20100630

Priority:

JP20090157292 20090701 JP20110520970 20100630 WO2010JP61204 20100630

Probable Assignee: ASAHI GLASS CO LTD

Assignee(s): (std): ASAHI GLASS CO LTD ; KAIDA YURIKO ; SAKAMOTO HIROSHI

Assignee(s): ASAHI GLASS COMPANY LIMITED ; ASAHI GLASS COMPANY LTD

Inventor(s): (std): HIROSHI SAKAMOTO ; KAIDA YURIKO ; SAKAMOTO HIROSHI ; YURIKO KAIDA

Agent(s): MUELLER BORE AND PARTNER PATENTANWALTE; FOLEY AND LARDNER LLP; SENMYO KENJI 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 RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW