

Search history

Search (polypropylene or thermoplastic or polyolefin*) and (impact w2 (resist* or strength)) and emboss* and (bright or gloss or glow) and roll*
1: (Results 611)

Search 1 and (film or layer) and (pattern or rugosity or roughness or concav* or convex*) (Results 421)
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Search (8) AND PD=(2007 OR 2011 OR 2008 OR 2003 OR 2006 OR 2009 OR 2013 OR 2000 OR 2002 OR 2004 OR 2005 OR 2010 OR 2012 OR 2001
9: OR 1998) (Results 18)

Title: METHOD OF NEUTRALIZING A STAIN ON A SURFACE

Abstract: Compositions, methods, apparatuses, kits, and combinations are described for neutralizing a stain on a surface. The compositions useful in the present disclosure include a composition that is formulated to be applied and affixed to a surface. If desired, the composition may be substantially removed from the surface to remove a portion or substantially all of the stain before being affixed to the surface. If a user desires to remove the composition from the surface, the composition is formulated to be removed by a number of methods including, for example, vacuuming, wet extraction, chemical application, and the like. If the user desires to affix the composition to the surface in a permanent or semi-permanent manner, the composition may be affixed to the surface by applying energy thereto in the form of, for example, heat, pressure, emitted waves, an emitted electrical field, a magnetic field, and/or a chemical. The compositions may also be utilized in the form of a kit or in conjunction with a design device, such as a stencil, to control the application of the composition to create, for example, a **pattern** on the surface.

Classifications:

International (IPC 8-9): A01K1/015 A61L9/01 B05C1/00 B05C17/06 B05C17/08 B05D1/02 B05D1/32 B05D1/36 B05D3/00 B05D3/02 B05D3/06 B05D3/10 B05D3/12 B05D3/14 B05D5/00 B05D5/06 B05D7/00 B08B5/04 B08B7/00 B22F1/00 B29C65/00 B29C71/04 B31B1/60 B32B15/04 B32B3/10 B32B37/00 B32B37/02 B32B5/16 B32B7/12 B32B9/04 B41C1/14 B41L13/00 B41M1/12 B41M3/00 B41M5/025 B41M5/03 B41M5/035 B41M5/04 B41M5/382 B41M7/00 B41N1/24 B44C1/00 B44C1/20 B44D5/00 B65D90/00 C08K13/00 C08K5/05 C08K5/06 C08L101/00 C08L21/00 C08L63/00 C09B67/00 C09B67/06 C09B67/20 C09B67/40 C09D101/00 C09D109/06 C09D11/00 C09D11/02 C09D11/06 C09D11/10 C09D125/06 C09D125/08 C09D125/14 C09D133/00 C09D133/02 C09D133/04 C09D133/08 C09D163/00 C09D167/00 C09D167/06 C09D169/00 C09D175/04 C09D177/00 C09D179/08 C09D181/00 C09D181/06 C09D183/04 C09D191/00 C09D191/06 C09D201/00 C09D5/00 C09D5/02 C09D5/14 C09D7/00 C09D7/12 C09K3/30 C11D1/00 C11D11/00 C11D17/04 C11D3/00 C11D3/37 C11D3/40 D06L3/00 D06M15/507 D06M15/643 D06M23/08 D06P1/44 D06P1/52 D06P1/54 D06P3/00 D06P3/24 D06P5/00 D06P5/02 D06P5/08 D06P5/20 D06Q1/02 D06Q1/10

E04G23/00 (Advanced/Invention);

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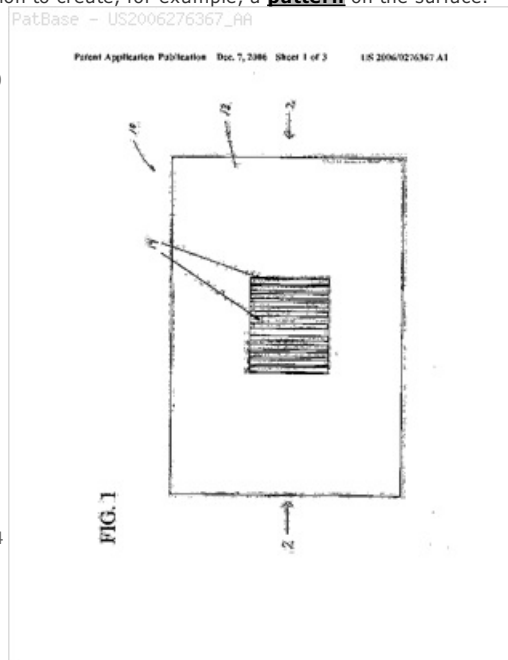
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Agent(s): SPRUSON AND FERGUSON; BERESKIN AND PARR LLP SENCRL SRL; RUSCHKE HANS EDVARD; SC JOHNSON AND SON INC; MAURER BRANT T; HENDON NATHAN P; SCHMIDBAUER NICHOLAS P

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 YU ZA ZM ZW

Title: PROCESS FOR ADJUSTING WVTR AND OTHER PROPERTIES OF A **POLYOLEFIN FILM**

Abstract: A process for rendering **films**, **film** composites, and articles made therefrom less resistant to passage of water vapor by passing a filled precursor **film** or **film** composite through the nip of interdigitating grooved **rollers**. The **films** or **film** composites are generally formed using a precursor **film** of a **film** forming **polyolefin** or **polyolefin** blend, with a relatively high filler loading and optionally an elastomer. A process is disclosed for making diapers or other disposable items where a relatively high water vapor is coupled with a resistance to liquid strikethrough. In one embodiment of the invention, the interdigitating grooved **rollers** are maintained in a temperature range of from about 91 degrees Fahrenheit to about 159 degrees Fahrenheit

Classifications:

International (IPC 8-9): A61F13/15 B29C47/00 B29C55/02 B29C55/18 B29C59/04 C08J5/18 C08K3/00 (Advanced/Invention);

B32B38/00 (Advanced/Non-invention);

A61F13/15 B29C55/18 C08J5/18 C08K3/00 (Core/Invention);

B32B38/00 (Core/Non-invention)

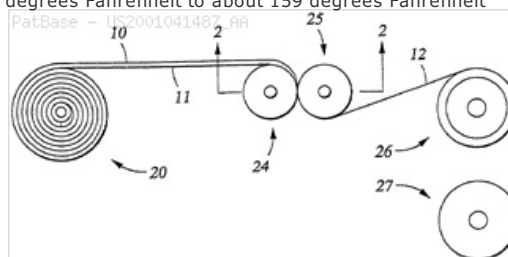
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Family:

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US2003168776 AA	20030911	US20030364215	20030211
US6258308 BA	20010710	US19990312103	19990514
US6264864 BA	20010724	US19990418405	19991014
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WO0023255 C2	20000914	WO1999US23879	19991014

WO0023509 A1	20000427	WO1999US23856	19991014
WO0069615 A2	20001123	WO2000US13287	20000515
WO0069615 A3	20010201	WO2000US13287	20000515
WO9804397 A1	19980205	WO1997US13579	19970731

Priority:

US19960690136	19960731	EP19970935262	19970731	WO1997US13579	19970731
US19980104452P	19981016	US19980104455P	19981016	US19980104948P	19981020
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US19990418405	19991014	WO1999US23856	19991014	WO1999US23879	19991014
WO2000US13287	20000515	US20010883764	20010618	US20010883747	20010618
US20030364215	20030211				

Probable Assignee: TREDEGAR FILM PRODUCTS CORP

Assignee(s): (std): BRADY KEVIN A ; BURNETT JOHN J ; EXXON CHEMICAL PATENTS INC ; EXXONMOBIL CHEM PATENTS INC ; EXXONMOBIL CHEMICAL CO ; EXXONMOBIL CHEMICAL PATENTS INC ; KLUG CAROL L ; TREDEGAR FILM PROD CORP

Assignee(s): EXXONMOBIL CHEMICAL PATENTS INC BAYTOWN TEXAS ; EXXONMOBIL CHEMICAL PATENTS INC BAYTOWN ; MACKAY JOHN H ; TREDEGAR FILM PRODUCTS CORP

Inventor(s): (std): BRADY A ; BRADY KEVIN A ; BRADY KEVIN ARTHUR ; BURNETT JOHN J ; BURNETT JOHN JAY ; CAROL L KLUG ; JOHN H MACKAY ; JOHN J BURNETT ; KEVIN A BRADY ; KLUG CAROL L ; KLUG CAROL LYNN ; KLUG L ; MACKAY JOHN H ; MACKAY H ; BURNETT J

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; BORDEN LADNER GERVAIS LLP; UEXKUELL AND STOLBERG; FISH AND RICHARDSON PC; TESSARI JOSEPH A; JOSEPH A

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM EE ES FI FR GA GB GD GE GH GM GN 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 NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

Title: IMAGE MAKING MEDIUM

Abstract: The invention relates to an image support medium for creation of an aesthetic image that is an work or object for display. This support medium includes a polymer in an amount sufficient to enable the image to have at least one aesthetic element. In different embodiments, the image support medium is an image support stabilizer, the polymer is a synthetic absorbent or conductive polymer, or the polymer is a transparent or synthetic translucent polymer and a property of this transparent or translucent polymer is enhanced to facilitate the creation or preservation of the image by at least one stabilizer. The invention also relates to a method for preparing this image support medium. The method includes forming a reaction mixture comprising a monomer in an amount sufficient to provide or enable the image to have an aesthetic element, and processing the reaction mixture into a 2- or 3-dimensional shape.

Classifications:

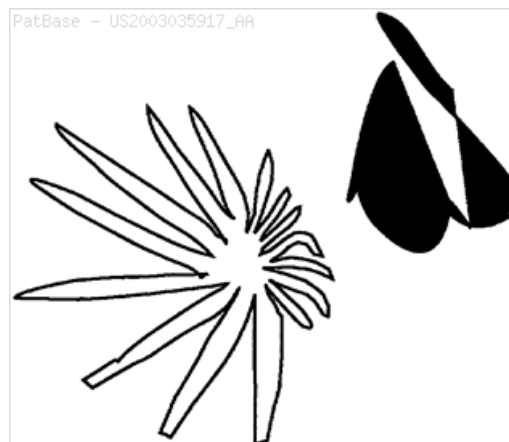
International (IPC 8-9): B41M1/00 B41M1/30 B41M5/24 B41M5/26 B41M5/36 B44C3/00 B44C3/04 B44C5/00 B44D3/18 B44F1/00 B44F1/06 B44F11/00 C08K3/34 C08K5/00 C08K5/34 C08K5/3445 C08L101/00 C08L81/00 D06N7/04 G03C5/00 G09B11/10 (Advanced/Invention); B41M5/24 B41M5/26 C08K5/00 (Advanced/Non-invention)

International (IPC 1-7): B32B1/00 B32B19/00 B32B9/00 B44C1/00 B44C1/26 B44C1/28 B44C3/12 C08J3/00 C08K5/34 C08L1/00 D06N7/04

CPC: Y10T428/22 Y10T428/24355 B41M1/30 B41M5/0047 B41M5/24 G03C5/00 B44C5/00 B41M5/26 B41M5/267 B41M5/36 B44C3/046 B44C3/048 B44D3/18 B44F1/00 C08K5/005 G09B11/10 B41M5/00 C08K3/04

European: B41M1/30 B41M5/36 B44C3/04F B44C3/04F2 C08K5/00P6 G03C5/00 L41M5/00S2 L41M5/24 L41M5/26 L41M5/26L

US: 156/58 156/58S 257/40 257/79 345/173 423/445R 428/141 428/141S 428/15 428/174 428/542.8 428/67 428/67P 428/69 428/690 428/690S 428/80 434/81 438/26 445/24 524/106 524/106S 524/445 524/495 524/496 524/609 524/612 528/502R

**Family:**

Publication number	Publication date	Application number	Application date
AU200058715 A1	20010102	AU20000058715	20000612
AU200058715 A5	20010102	AU20000058715D	20000612
CA2394645 AA	20020618	CA20002394645	20000612
EP1208150 A1	20020529	EP20000944650	20000612
EP1208150 A4	20050126	EP20000944650	20000612
EP1777255 A2	20070425	EP20070100176	20000612
EP1777255 A3	20070711	EP20070100176	20000612
US2003035917 AA	20030220	US20020170503	20020614
US2014186646 AA	20140703	US20140203327	20140310
US2015125829 AA	20150507	US20140584921	20141229
US2017287351 AA	20171005	US20170630499	20170622
US2017316713 AA	20171102	US20170647051	20170711
US7629400 BB	20091208	US20020170503	20020614
US8669325 BA	20140311	US20090631627	20091204
US8921473 BA	20141230	US20050118975	20050428
US9744800 BB	20170829	US20140203327	20140310
US9786194 BB	20171010	US20140584921	20141229
WO0077085 A1	20001221	WO2000US16111	20000612

Priority:

US19990138694P 19990611	EP20000944650 20000612	WO2000US16111 20000612
US20010012259 20011211	US20020170503 20020614	US20020012259 20020614
US20040567022P 20040430	US20050118975 20050428	US20090631627 20091204
US20140203327 20140310	US20140584921 20141229	US20170630499 20170622
US20170647051 20170711		

Probable Assignee: HYMAN SYDNEY**Assignee(s):** (std): HYMAN SYDNEY**Assignee(s):** SYDNEY HYMAN**Inventor(s):** (std): HYMAN SYDNEY**Inventor(s):** SYDNEY HYMAN**Agent(s):** OSLER HOSKIN AND HARCOURT LLP; WINSTON AND STRAWN LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN 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 NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Title: RETROREFLECTIVE ARTICLE

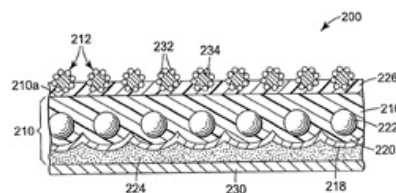
Abstract: A retroreflective article that exhibits suitable retroreflective luminance under dry and dynamic wet conditions. The article includes an enclosed-lens retroreflective **sheeting** that, under dry conditions, exhibits a coefficient of retroreflective luminance of about 40 (millicandela/m²)/lux as measured by ASTM D 4061-94 and, under dynamic wet conditions the **sheeting** increases in coefficient of retroreflective luminance. The article further includes a plurality of retroreflective elements partially embedded in a light transmissible bonding **layer** on the front, reflective surface of the retroreflective **sheeting**.

Classifications:

International (IPC 8-9): E01F15/08 E01F9/00 E01F9/015 E01F9/03 E01F9/04 E01F9/08 E01F9/50 E01F9/524 E01F9/619 E01F9/669 G02B5/12 G02B5/124 G02B5/128 G02B5/13 G02B5/136 (Advanced/Invention); E01F9/00 E01F9/015 E01F9/04 G02B5/12 (Advanced/Non-invention); E01F9/00 E01F9/011 E01F9/04 G02B5/12 (Core/Invention); G02B5/136 (Core/Non-invention); B32B B60R E01F E04H (Subclass/Invention)
International (IPC 1-7): A01N027/00 A01N037/02 A01N065/00 B29D11/00 B32B1/00 B32B3/00 B32B5/16 E01F9/00 E01F9/015 E01F9/03 E01F9/04 E01F9/08 E01F9/15 G02B5/12 G02B5/122 G02B5/124 G02B5/128 G02B5/13 G02B5/136
CPC: Y10S264/78 Y10S428/913 Y10T428/24355 Y10T428/24372 Y10T428/24421 Y10T428/24479 Y10T428/24521 Y10T428/24529 Y10T428/24537 Y10T428/24562 Y10T428/252 Y10T428/28 Y10T156/1002 Y10T156/1028 Y10T156/103 Y10T428/24579 Y10T428/24587 Y10T428/24612 Y10T428/24802 E01F9/512 E01F9/524 E01F9/619 E01F9/669 G02B5/124 G02B5/128 E01F15/083
European: E01F15/08M2 E01F9/015 E01F9/03 E01F9/04B2 E01F9/04B3 G02B5/124 G02B5/128 S02B5/128
US: 116/63R 156/196 156/212 156/213 264/1.38 264/1.9 264/138 264/19 264/2.7 264/27 264/571 264/DIG.78 329/529 329/531 329/532 329/533 329/534 329/537 359/529 359/530 359/531 359/532 359/533 359/534 359/536 359/537 359/539 359/542 404/12 404/14 404/16 404/6 404/82 404/9 427/137 427/163.4 428/141 428/141P 428/143 428/149 428/156 428/161 428/162 428/163 428/166 428/168 428/169 428/172 428/195 428/195.1 428/220 428/325 428/343 428/913

PatBase - US2002090492_AA

Patent Application Publication Jul. 11, 2002 US 2002/0090492 A1

**Fig. 1****Family:**

Publication number	Publication date	Application number	Application date
AR002643 AA	19980325	AR19960103380	19960628
AR002644 AA	19980325	AR19960103381	19960628
AR2643 A1	19980325	AR19960337277	19960628
AR2644 A1	19980325	AR19960337278	19960628
AT184939 E	19991015	AT19960923474T	19960627
AT184940 E	19991015	AT19960922609T	19960627
AT184941 E	19991015	AT19960923493T	19960627
AT318415 E	20060315	AT19990942067T	19990810
AU199663425 A1	19970130	AU19960063425	19960627
AU199663428 A1	19970130	AU19960063428	19960627
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BRPI9608636 A	19990615	BR1996PI08636	19960627
BRPI9609161 A	19990504	BR1996PI09161	19960627
BRPI9609339 A	19990511	BR1996PI09339	19960627
BRPI9609340 A	19990511	BR1996PI09340	19960627
CA2222565 AA	19971127	CA19962222565	19960627
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CA2222587 C	20070612	CA19962222587	19960627
CA2224326 AA	19971210	CA19962224326	19960627
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CN1133082 C	20031231	CN1998016545	19990810
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DE69604404 D1	19991028	DE19966004404	19960627
DE69604404 T2	20000323	DE19966004404T	19960627
DE69929984 D1	20060427	DE19996029984	19990810
DE69929984 T2	20061109	DE19996029984T	19990810
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EP0835350 A1	19980415	EP19960922614	19960627
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EP0835351 B1	19990922	EP19960923493	19960627
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EP1166159 B1	20060222	EP19990942067	19990810
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JP2000515207 T2	20001114	JP19970504588T	19960627
JP2002541505 T2	20021203	JP20000609820T	19990810
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JP3717938 B2	20051116	JP19970504581T	19960627
JP5021781 B2	20120912	JP20100060385	20100317
KR19990028420 A	19990415	KR19970709736	19960627
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KR19990028471 A	19990415	KR19970709787	19960627
KR19990028472 A	19990415	KR19970709788	19960627
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NO975442 A0	19971126	NO19970005442	19971126
NO975443 A	19980226	NO19970005443	19971126
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NO975795 A	19980302	NO19970005795	19971209
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NO975796 A	19980302	NO19970005796	19971209
NO975796 A0	19971209	NO19970005796	19971209
TH26106 A	19970724	TH19961002125	19960626
TH26387 A	19970828	TH19961002126	19960626
TW297865 B	19970211	TW19960107490	19960621
US2002090492 AA	20020711	US19990285349	19990402
US5837350 A	19981117	US19960672129	19960627
US5880885 A	19990309	US19960671435	19960627
US6127020 A	20001003	US19990307114	19990507
US6303058 BA	20011016	US19980183831	19981030
US6451408 BA	20020917	US19990285349	19990402
US6703108 BA	20040309	US20000652119	20000829
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WO9701673 A1	19970116	WO1996US10955	19960627
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WO9701679 A1	19970116	WO1996US11055	19960627
ZA9605382 A	19971225	ZA19960005382	19960625
ZA9605383 A	19971225	ZA19960005383	19960625

Priority:

US19950000706	19950629	US19950000706P	19950629	US19950000708	19950629
US19950000707	19950629	US19950000708P	19950629	US19950000707P	19950629
US19960671435	19960627	US19960672129	19960627	US19960672143	19960627
WO1996US11036	19960627	WO1996US10998	19960627	WO1996US10955	19960627
WO1996US11055	19960627	WO1996US11045	19960627	US19980183831	19981030
US19990285349	19990402	US19990307114	19990507	JP20000609820	19990810
WO1999US18100	19990810	US20000652119	20000829		

Probable Assignee: 3M CO

Assignee(s): (std): 3M CO ; 3M INNOVATIVE PROPERTIES CO ; MINNESOTA MINING AND MFG CORP ; THREE M INNOVATIVE PROPERTIES ; MINNESOTA MINING AND MFG ; STUMP LARRY K

Assignee(s): MINNESOTA MINING AND MFG CO ; MINNESOTA MINING AND MFG CO SAINT PAUL ; JACOBS GREGORY F ; SCHUELER DAVID G ; GUTHRIE SHARON RA ; MINNESOTA MINING AND MANUFACTURING COUS ; ZENDER MARK D ; HAUNSCHILD DALE H ; HAENGGI ROBERT A ; THREE M INNOVATIVE PROPERTIES CO ; 3M INNOVATIVE PROPERTIES CO ST PAUL ; BACON CHESTER A JR ; BAILEY TERRY R ; BELISLE LOUIS C ; BELISLE LOUIS C DECEASED ; BRADSHAW THOMAS I ; ETHEN JOHN L

Inventor(s): (std): BACON JR CHESTER A ; BAILEY TERRY ; BAILEY TERRY RALPH ; BELISLE LOUIS C DECEASED ; BELISLE LOUIS CLEMENT ; BRADSHAW T IAN ; CHESTER A BACON JR ; ETHEN J L ; ETHEN JOHN L ; ETHEN L ; FRANK JOHN W ; GREGORY F JACOBS ; GREGORY FRANCIS JACOBS ; HAENGGI A ; HAENGGI ROBERT A ; HAUNSCHILD D H ; HAUNSCHILD DALE H ; HAUNSCHILD DALE HARLAN ; HAUNSCHILD H ; HAUSCHILD DALE H ; DALE H HAUNSCHILD ; DALE H HAUSCHILD ; DAVID G SCHUELER ; DAVID GEORGE SCHUELER ; JACOBS GREGORY FRANCIS ; JOHN L ETHEN ; KELLEY MICHELE H ; LARRY K STUMP ; LOUIS C BELISLE ; LOUIS CLEMENT BELISLE ; NAKAYAMA NAOKI ; NGUYEN THANH HUONG THI ; ROBERT A HAENGGI ; SCHUELER DAVE G ; SCHUELER DAVID ; SCHUELER DAVID GEORGE ; STUMP K ; STUMP LARRY ; STUMP LARRY E ; STUMP LARRY K ; STUMP LARRY KENNETH ; TERRY R BAILEY ; THOMAS I BRADSHAW ; WILSON BRUCE B ; ZENDER D ; ZENDER M D ; ZENDER MARK D ; JACOBS GREGORY ; HAUNSCHILD DALE ; BELISLE LOUIS ; BRADSHAW THOMAS IAN ; BELISLE LOUISE CLEMENT ; BACON CHESTER A ; SCHUELER DAVID G ; JACOBS GREGORY F ; BRADSHAW THOMAS I ; BELISLE LOUIS C ; BAILEY TERRY R ; BACON CHESTER A JR ; DALE HARLAN HAUNSCHILLO ; MARK D ZENDER

Inventor(s): MD ZENDER ; BRADSHAW THOMAS ; BACON JR CHESTER ARTHUR ; BACON CHESTER ; THOMAS IAN BRADSHAW ; TERRY RALPH BAILEY ; LOUISE CLEMENT BELISLE ; LARRY KENNETH STUMP ; JR CHESTER ARTHUR BACON ; DALE HARLAN HAUNSCHILD ; M D ZENDER ; LARRY E STUMP ; JL ETHEN ; DH HAUNSCHILD ; J L ETHEN ; D H HAUNSCHILD

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; SMART AND BIGGAR; NISHIYAMA MASAYA; ISHIDA TAKASHI; TSURUTA JUNICHI; HIGUCHI SOTOJI; FUKUMOTO TSUMORU

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

Title: NON-VINYL RESILIENT FLOORING PRODUCT AND METHODS OF MAKING SAME

Abstract: Described herein is a resilient floor covering made from non-vinyl materials. Also disclosed are related methods for manufacturing the resilient floor coverings described herein.

Classifications:

International (IPC 8-9): B32B25/04 B32B25/08 B32B27/00 B32B27/06 B32B27/08 B32B27/12 B32B27/20 B32B27/32 B32B3/00 B32B3/16 B32B3/30 B32B37/12 B32B38/14 B32B5/26 B32B7/02 B44C1/165 E04B5/02 E04F15/02 E04F15/10 E04F15/16 (Advanced/Invention)

International (IPC 1-7): B32B25/08 B32B5/26 E04F15/16

CPC: B32B5/26 B32B25/08 B32B27/08 B32B2255/10 B32B2255/26 B32B2262/101 B32B2274/00 B32B2307/4023 B32B2307/554 E04F15/163 Y10T156/10 Y10T428/24802 Y10T428/24851 Y10T428/24868 Y10T428/24876 Y10T428/24901 E04F15/107 B32B37/12 B32B2307/41 B32B2471/00 E04F15/105 E04F15/02 E04F15/16 B32B3/30 B32B5/022 B32B5/024 B32B7/12 B32B27/10 B32B27/28 B32B27/306 B32B27/308 B32B27/40 B32B29/002 B32B2262/0253 B32B2262/0261 B32B2262/0276 B32B2264/067 B32B2264/10 B32B2272/00 B32B2307/514 B32B2307/718 B32B2307/732 B32B2307/75 B32B2419/04 B32B2451/00 B32B27/12 B32B27/32 B32B7/02 B32B27/20 B32B2307/584 B32B7/06 B32B15/04 B32B15/08 B32B23/04 B32B23/08 B32B27/16 B32B27/304 B32B27/325 B32B27/36 B32B2255/06 B32B2255/12 B32B2255/20 B32B2255/24 B32B2262/0284 B32B2264/0242 B32B2264/101 B32B2264/102 B32B2264/108 B32B2270/00 B32B2307/308 B32B2307/406 B32B2307/518 B32B2307/734 B32B27/302 B32B2307/51

European: B32B25/08 B32B27/08 B32B27/12 B32B27/32 B32B5/26 L32B255/10 L32B255/26 L32B262/10A L32B274/00 L32B307/402B L32B307/554 L32B471/00 P04F15/16B

US: 1/1 156/60 156/71 156/71S 427/402 428/195.1 428/195.100P 428/201 428/203 428/204 428/207

PatBase - US2011268933_AA



Family:

Publication number	Publication date	Application number	Application date
BE1020391 AD	20130903	BE20110000262	20110502
BE1024416 A9	20180307	BE20160000046	20160222
BE1024416 AB	20180208	BE20160000046	20160222
BE1024416 B9	20180312	BE20160000046	20160222
BE1024416 BB	20180212	BE20160000046	20160222
CN102277945 A	20111214	CN201110118747	20110503
CN102277945 B	20150121	CN201110118747	20110503
CN107405860 A	20171128	CN201680015523	20160219
EP3259124 A2	20171227	EP20160753136	20160219
JP2011236733 A2	20111124	JP20110103250	20110502
JP2016104966 A2	20160609	JP20160042117	20160304
JP2018141365 A2	20180913	JP20180117786	20180621
JP2018507334 T2	20180315	JP20170543950T	20160219
KR20110121596 A	20111107	KR20110041705	20110502
KR20170121204 A	20171101	KR20177025317	20160219
US2011268933 AA	20111103	US20110099039	20110502
US2013333821 AA	20131219	US20130971472	20130820
US2016340916 AA	20161124	US20160048215	20160219
US8859085 BB	20141014	US20110099039	20110502
US9359773 BB	20160607	US20130971472	20130820
WO16134243 A2	20160825	WO2016US18652	20160219
WO16134243 A3	20161027	WO2016US18652	20160219

Priority:

US20100330006P	20100430	JP20110103250	20110502	JP20160042117	20110502
US20110099039	20110502	US20130971472	20130820	US20150118764P	20150220
US20160048215	20160219	WO2016US18652	20160219	JP20160042117	20160304

Probable Assignee: COLUMBIA INSURANCE CO

Assignee(s): (std): BALLEW KELLIE ; COLUMBIA INSURANCE CO ; HAHN KRIS EDWARD ; SHAW IND GROUP INC ; WRIGHT JEFFREY

Assignee(s): SHAW INDUSTRIES GROUP INC

Inventor(s): (std): ODUM TOM ; HAHN KRIS EDWARD ; BRIERE JEAN ; BALLEW KELLIE ; REES JOHN J M ; KELLY BALLEW ; CHRIS EDWARD HEARN ; KRIS EDWARD HAHN ; KELLIE BALLEW ; JEFFREY WRIGHT ; WRIGHT JEFFREY J ; WRIGHT JEFFREY ; VECSEY JAY ; SUBRAMANIAN MAHESH

Inventor(s): REES JOHN JM

Agent(s): LEISSLER GERSTL GABRIELE; BALLARD SPAHR LLP; ANDERSON JOSEPH P ET AL

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 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

Title: TWO-PIECE SIDING PLANK AND METHODS OF MAKING AND INSTALLING THE SAME

Abstract: In one embodiment, a siding plank assembly comprising an interlocking feature that allows the siding plank to be stacked with other siding planks in a manner such that a uniform and deep shadow line is created. The interlocking feature sets the gauge of the exposed plank face and allows for leveling of the plank during installation. The siding plank assembly comprises a main plank section securely bonded to a second piece that produces a deep shadow line. In preferred embodiments, the second piece may be a fiber cement butt piece or a plastic spline that is bonded to the main plank section. A lock structure may also be included on the fiber cement butt piece or plastic spline.

Classifications:

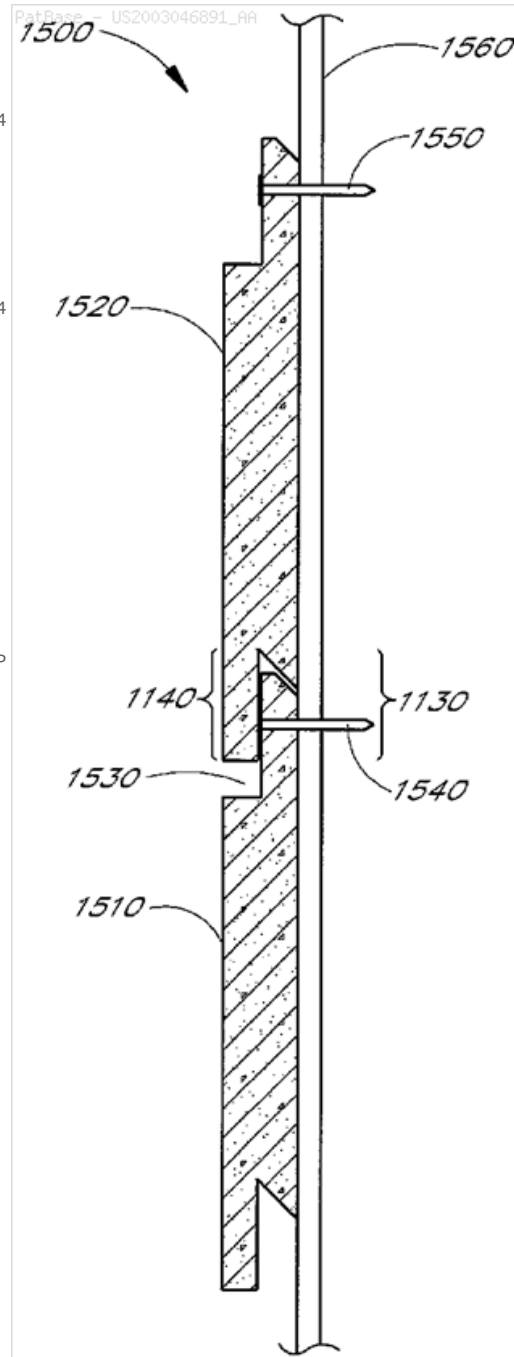
International (IPC 8-9): B28B1/00 B28B3/00 B32B13/02 B32B13/06 B32B13/10 B32B13/12 B32B41/00 C04B14/02 C04B14/28 C04B14/38 C04B16/02 C04B16/06 C04B24/00 C04B24/08 C04B24/38 C04B24/42 C04B28/00 C04B28/02 C09J175/04 E04C2/06 E04C2/06 E04D1/04 E04D1/16 E04D1/30 E04D1/34 E04D1/36 E04D3/04 E04F13/08 E04F13/14 E04F13/15 E04F13/16 E04F13/21 (Advanced/Invention); C04B111/30 C04B14/02 C04B16/06 C04B28/00 C04B28/02 E04C2/06 E04F13/15 (Advanced/Non-invention); C04B14/02 C04B14/38 C04B16/00 C04B24/00 C04B28/00 E04C2/06 E04D1/00 E04D1/02 E04D1/12 E04D1/30 E04D1/34 E04D3/02 E04F13/14 (Core/Invention)

International (IPC 1-7): B28B1/00 B32B1/02 B32B13/02 B32B13/06 B32B13/12 C04B28/00 C04B28/02 C09J175/04 E04C2/06 E04C2/18 E04C3/00 E04D1/00 E04D1/04 E04D1/16 E04D1/30 E04F13/08 E04F13/14 E04F13/16

CPC: E04F13/0896 B28B1/002 C08G2170/20 C09J175/04 E04F13/0864 E04F13/16 Y10T428/131 Y10T428/24124 Y10T428/24777 Y02W30/92 Y02W30/97 C04B2111/00612 C04B2111/54 C04B2201/50 E04D1/34 E04D1/36 E04D2001/306 E04D2001/3423 E04D2001/3467 E04D1/30 C04B2111/00594 C04B2111/30 C04B2111/34 E04D1/04 E04D1/16 E04D2001/305 Y10T428/249932 E04F13/148 C04B28/02 B32B7/12 B32B2307/542 B32B2307/558 B32B2607/00 B32B13/02 B32B13/06 B32B13/12 E04F13/141

European: B28B1/00B B32B13/02 B32B13/06 B32B13/12 C04B28/02 C09J175/04 E04D1/04 E04D1/16 E04D1/30 E04D1/34 E04D1/36 E04F13/08D E04F13/14B E04F13/16 M04B111/00T4C M04B111/00T6 M04B111/30 M04B111/34 M04B111/54 M04B201/50 M08G170/20 P04D1/30B1 P04D1/30B1A P04D1/34F5 P04D1/34P5 P04F201/07

US: 106/713 156/161 156/161S 156/350 156/367 156/378 156/379 156/64 156/71 156/71P 264/333 264/333S 428/113 428/192 428/192S 428/294.7 428/34.4 428/34.400P 52/294 52/313 52/313S 52/518 52/518P 52/519 52/519S 52/52 52/520 52/520S 52/539 52/539S 52/541 52/541P 52/541S 52/578 52/578S 52/781.5 53/294 53/518 53/781.5

**Family:**

Publication number	Publication date	Application number	Application date
AR033111 AA	20031203	AR2002P101240	20020404
AR033689 AA	20040107	AR2002P101237	20020404
AR033690 AA	20040107	AR2002P101239	20020404
AR034032 AA	20040121	AR2002P101238	20020404
AU2002248751 AA	20021021	AU20020248751	20020403
AU2002248751 BB	20080814	AU20020248751	20020403
AU2002248752 AA	20021021	AU20020248752	20020403
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AU2002250516 AA	20021021	AU20020250516	20020403
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AU2004249780 AA	20041229	AU20040249780	20040621
AU2008203453 AA	20080828	AU20080203453	20080731
AU2008203471 AA	20080828	AU20080203471	20080801
BRPI0208620 A	20040427	BR2002PI08620	20020403
BRPI0208621 A	20040427	BR2002PI08621	20020403
BRPI0208622 A	20050201	BR2002PI08622	20020403
CA2442840 AA	20030930	CA20022442840	20020403
CA2443158 AA	20030930	CA20022443158	20020403
CA2443344 AA	20031001	CA20022443344	20020403
CA2443348 AA	20031001	CA20022443348	20020403
CA2443348 C	20101019	CA20022443348	20020403
CA2525616 AA	20051110	CA20042525616	20040621
CL2002000653 A1	20030526	CL20020000653	20020403
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CL2002000655 A1	20030606	CL20020000655	20020403
CL2002000656 A1	20030711	CL20020000656	20020403
CL43298 B	20071115	CL20020000654	20020403
CL43582 B	20080528	CL20020000655	20020403
CN100354490 C	20071212	CN20028011237	20020403
CN100497238 C	20090610	CN200480017232	20040621
CN101089324 A	20071219	CN200710139701	20040621
CN101481234 A	20090715	CN200810181348	20040621
CN1252364 C	20060419	CN20028011074	20020403
CN1308560 C	20070404	CN20028011168	20020403
CN1513073 A	20040714	CN20028011074	20020403
CN1513074 A	20040714	CN20028011168	20020403
CN1513075 A	20040714	CN20028011237	20020403
CN1809514 A	20060726	CN200480017232	20040621
CZ20032808 A3	20040414	CZ20030002808	20020403
DE60245093 D1	20130808	DE20026045093	20020403
EP1377716 A1	20040107	EP20020717770	20020403
EP1377717 A1	20040107	EP20020719449	20020403
EP1377718 A1	20040107	EP20020719435	20020403
EP1377718 B1	20130612	EP20020719435	20020403
EP1379738 A1	20040114	EP20020717769	20020403
EP1631532 A2	20060308	EP20040755854	20040621
JP2004524463 T2	20040812	JP20020579590T	20020403
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JP2004524466 T2	20040812	JP20020579593T	20020403
JP2007528335 T2	20071011	JP20060517539T	20040621
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JP4117732 B2	20080716	JP20020579590T	20020403
KR100793106 B1	20080110	KR20037013036	20020403
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KR20030094322 A	20031211	KR20037013034	20020403
KR20030094323 A	20031211	KR20037013036	20020403
KR20040012745 A	20040211	KR20037013035	20020403
KR20060063793 A	20060612	KR20057023493	20040621
MXPA03009029 A1	20040212	MX2003PA09029	20020403
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NZ528779 A	20050324	NZ20020528779	20020403
NZ543696 A	20071130	NZ20040543696	20040621
NZ562521 A	20090331	NZ20040562521	20040621
PL364456 A1	20041213	PL20020364456	20020403
US2003046891 AA	20030313	US20020117549	20020403
US2003054123 AA	20030320	US20020117401	20020403
US2003056458 AA	20030327	US20020117561	20020403
US2005284339 AA	20051229	US20050078651	20050311
US2009283201 AA	20091119	US20090510741	20090728
US7713615 BB	20100511	US20020117401	20020403
US8409380 BB	20130402	US20090510741	20090728
WO02081839 A1	20021017	WO2002US10608	20020403

WO02081841 A1	20021017	WO2002US10610	20020403
WO02081842 A1	20021017	WO2002US10609	20020403
WO04113248 A2	20041229	WO2004US19980	20040621
WO04113248 A3	20050317	WO2004US19980	20040621

Priority:

US20010281195P	20010403	AU20020248751	20020403	AU20020248752	20020403
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US20050078651	20050311	US20090510741	20090728		

Probable Assignee: JAMES HARDIE RESEARCH PTY LTD

Assignee(s): (std): BLACK ANDREW J ; BRUNTON GREG ; COLADA JERRICO Q ; GLEESON JAMES A ; HARDIE JAMES RES PTY LTD ; JAMES HARDIE INT FINANCE ; HINCZAK IHOR ; JAMES HARDIE INT FINANCE B ; JAMES HARDIE INT FINANCE BV ; HARDIE JAMES TECHNOLOGY LTD ; JAMES HARDIE INT FINANCES ; JAMES HARDIE RES PTY LTD ; MERKLEY DONALD J ; KUIZENGA MARCUS ; JIANG CHONGJUN ; JAMES HARDIE RES LTD ; KUIZENGA MARCUS H ; JAMES HARDIE INTERNAT FINANCES ; JAMES HARDIE INTERNAT FINANCE ; JAMES HARDIE RESEARCH PTYLIMITED ; PENG WEILING ; THOMPSON NOEL E ; TERZIAN STEVEN ; SLOANE BRIAN ; PAGONES PETER ; WANG HUIJUN

Assignee(s): TERZIAN STEVE ; JAMES HARDIE INTERNATIONAL FINANCES B V ; JAMES HARDIE INTERNATIONAL FINANCE B V ; JAMES HARDIE RESEARCH PTY LTD ; JAMES HARDIE TECHNOLOGY LTD ; JAMES HARDIE RESEARCH PTY LIMITED ; JAMES HARDIE INTERNATIONAL FINANCE BV ; JAMES HARDIE RESEARCH LTD ; JAMES HARDIE INTERNATIONAL FINANCE B ; JAMES HARDIE TECHNOLOGY LIMITED ; JAMES HARDIE INTERNATIONAL FINANCE N V ; JAMES HARDIE INT FINANCES BV ; JAMES HARDIE INT ; JAMES HARDIE INT FINANCE NV

Inventor(s): (std): AJ BLACK ; BLACK ANDREW J ; BRIAN SLOANE ; BRUNTON GREG ; CHONGJUN JIANG ; CHONGJUN KUIZENGA MARCUS BRUNT ; COLADA JERRICO Q ; DJ MERKLEY ; GLEESON JAMES A ; GREG BRUNTON ; HINCZAK IHOR ; HUIJUN WANG ; IHOR HINCZAK ; JA GLEESON ; JIANG CHONGJUN ; JQ COLADA ; KUIZENGA MARCUS ; PENG WELLING ; PETER PAGONES ; SLOANE BRIAN ; TERZIAN STEVEN ; THOMPSON NOEL E ; W PENG ; WANG HUIJUN ; MARCUS KUIZENGA ; MERKLEY DONALD J ; PAGONES PETER ; PENG WEILING ; KUIZENGA MARCUS H ; WANG HUIJIN ; TERZIAN STEVE ; PENG W ; MERKLEY D J ; MERKLEY A J BLACK J A GLEESON ; GLEESON J A ; COLADA J Q ; BLACK A J ; MERKLEY J Q COLADA J A GLEESON

Inventor(s): KUIZENGA MARCUS BRUNTON GREG SLOANE BRIAN HINCZAKIHOR PAGONES PETER WANG HUIJUN JIANG CHONGJUN ; J Q COLADA J A GLEESON D J MERKLEY ; J A GLEESON ; D J MERKLEY ; A J BLACK ; BERGH JEFFREY ; BACK ANDREW J ; A J BLACK J A GLEESON D J MERKLEY ; STEVEN TERZIAN ; NOEL E THOMPSON ; JERRICO Q COLADA ; JAMES A GLEESON ; BLACK ANDREW J PENG WEILING ; COLADA JERRICO ; MERKKELY DONALD J GLEESON JAMES ; J Q COLADA ; PENG WEILING THOMPSON NOEL ; KUIZENGA MARCUS HENRY ; PENG WEILING ALTA LOMA ; WEILING PENG ; WEILING ; THOMPSON ; TERZIAN ; STEVEN ; PENG ; NOEL E ; MERKLEY ; JERRICO Q ; JAMES A ; GLEESON ; DONALD J ; COLADA ; BERGH JEFFREY COLADA JERRICO MERKKELY DONALD J GLEESON JAMES PENG WEILING THOMPSON NOEL ; BACK ; ANDREW J ; KUIZENGA MARCUS BRUNTON GREG SLOANE BRIAN ; KUIZENGA MARCUS BRUNTON GREG SLOANE BRIAN HINCZAKI ; DONALD J MERKLEY ; BLACK ANDREW J RANCHO CUCAMONGA ; AJ BLACK JA GLEESON DJ MERKLEY ; ANDREW J BLACK

Agent(s): SHELSTON IP PTY LTD; SHELSTON IP; SMART AND BIGGAR; SARGENT; LENNEY JAMES PATRICK; CHUNG TAE RYOUN; CHO TARM; KNOBBE MARTENS OLSON AND BEAR LLP; GARDERE JHIF GARDERE WYNNE SEWELL LLP; GARDERE WYNNE SEWELL LLP

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 NA 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

Title: **EMBOSS**ED MULTILAYER **FILM**

Abstract: An **embossed** multilayer **film** comprises an **embossed** base **layer** and a conformable, substantially uniformly thick protective surface **layer** that overlies the base **layer**. In one embodiment, the **embossed** multilayer **film** can be re-**embossed**. In another embodiment, the surface **layer** is provided by a polyurethane-based material. The invention also relates to a method of providing such an **embossed** multilayer **film**.

Classifications:

International (IPC 8-9): B29C59/02 B32B27/08
B32B3/30 (Advanced/Invention)

International (IPC 1-7): B29C59/02 B32B27/08 B32B3/00 B32B3/30

CPC: Y10T428/24802 Y10T428/24843 Y10T428/24868 Y10T428/28
B29C59/026 B29L2009/00 Y10T428/31511 Y10T428/31551

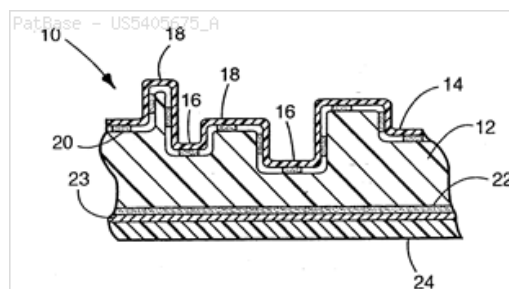
Y10T428/31786 Y10T428/31855 Y10T428/31931 Y10T428/31935

B32B27/304 B32B27/306 B32B27/32 B32B27/40 B32B38/06

B32B2270/00 B32B2307/4023 B32B2309/02 B32B27/08 B32B3/30

European: B29C59/02L B32B27/08 B32B3/30 L29L9/00

US: 428/195 428/195.1 428/200 428/203 428/343 428/413 428/423.1
428/480 428/500 428/521 428/522 428/688



Family:

Publication number	Publication date	Application number	Application date
DE69329655 D1	20001214	DE19936029655	19931207
DE69329655 T2	20010621	DE19936029655T	19931207
EP0673308 A1	19950927	EP19940904408	19931207
EP0673308 B1	20001108	EP19940904408	19931207
EP1036649 A2	20000920	EP20000109405	19931207
EP1036649 A3	20001025	EP20000109405	19931207
ES2151543 T3	20010101	ES19940904408T	19931207
US5405675 A	19950411	US19920990791	19921210
WO9413465 A1	19940623	WO1993US11902	19931207

Priority:

US19920990791 19921210 EP19940904408 19931207 EP19940904408 19931207
WO1993US11902 19931207 WO1993US11902 19931207

Probable Assignee: 3M CO

Assignee(s): (std): MINNESOTA MINING AND MFG

Assignee(s): MINNESOTA MINING AND MFG CO ; MINNESOTA MINING AND MFG CO SAINT PAUL ; 3M CO ; MINNESOTA MINING AND MANUFACTURING COMPANY

Inventor(s): (std): HO CHIA TIE ; MCMULLEN CARL W ; MCMULLEN W ; SAWKA M ; SAWKA RAYMOND M ; WEIGL STEFAN

Designated states: AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

Title: ACRYLIC RESIN **FILM**, METHOD OF PRODUCING THE SAME, AND LAMINATE USING THE SAME

Abstract: There is provided an acrylic resin **film** having good matted appearances and good printing characteristics, e.g., little suffering missing prints when printed. There is provided an acrylic resin **film** having a differential 60 degrees surface **gloss** of 5 percent or more between the front and back sides, and thickness of 300 μm or less; a method of producing the above-described acrylic resin **film**, where a molten acrylic resin composition is extruded, and then **rolled** between a mirror-ground **roll** and rubber or **embossed roll** into the **film**; and a laminate (formed article coated with the acrylic resin **film**) with a side having a higher 60 degrees surface **gloss** coming into contact with a base.

Classifications:

International (IPC 8-9): B29C47/14 B29C47/88 B32B27/08 B32B27/30 B32B27/32 B60R13/02 C08F265/06 C08J5/18 C08L23/12 C08L33/06 C08L33/14 C08L51/00 (Advanced/Invention); B29K33/00 B29L7/00 (Advanced/Non-invention); B29C47/14 B29C47/88 B32B27/08 B32B27/30 B32B27/32 B60R13/02 C08F265/00 C08J5/18 C08L23/00 C08L33/00 C08L51/00 (Core/Invention)

International (IPC 1-7): B29C47/14 B29C47/88 B29K33/00 B29L7/00 B32B27/30 B32B27/32 B60R13/02 C08F265/06 C08H1/00 C08J5/18 C08L23/12 C08L33/06 C08L33/14 C08L51/00

CPC: C08F285/00 C08J2333/08 Y10T428/2486 Y10T428/24942 Y10T428/2987 Y10T428/31928 Y10T428/31935 B32B27/30 B32B2327/06 B32B2367/00 B32B2369/00 B32B27/08 C08J5/18

European: B32B27/08 C08J5/18 M08J333/08

US: 264/175 428/202 428/212 428/402.22 428/520 428/522 525/1 525/10 525/10S 525/59 525/59S 525/8 525/8P

表 1									
Table 1									
	厚さ (mm)	片面平均 表面光沢度 (%)	片面平均 表面光沢度 (%)	片面平均 表面光沢度 (%)	片面平均 表面光沢度 (%)	片面平均 表面光沢度 (%)	片面平均 表面光沢度 (%)	片面平均 表面光沢度 (%)	片面平均 表面光沢度 (%)
実施例 1	22	101	153	20	133	0.2	87	◎	74
実施例 2	60	80	153	15	138	0.1	113	◎	105
実施例 3	20	98	20	7	13	0	16	×	6
実施例 4	35	81	168	8	20	4	27	×	19
実施例 5	55	81	18	12	6	16	33	×	22
実施例 6	29	101	42	13	29	6	42	◎	39
実施例 7	64	87	45	13	24	5	54	◎	43
実施例 8	20	98	26	5	30	4	14	×	6
実施例 9 (A1)	20	97	33	6	27	2	44	×	33
実施例 10	20	110	16	8	8	16	12	△	6
実施例 11	20	90	24	7	17	9	16	○	7
実施例 12	20	100	46	7	39	2	23	◎	13
実施例 13	20	100	31	7	24	3	19	◎	9
実施例 14	20	97	26	7	19	4	16	×	7
実施例 15	20	97	53	7	48	2	35	×	26
実施例 16	35	81	43	9	34	2	46	×	39
実施例 17	20	99	22	7	15	6	16	△	7
比較例 1	22	101	102	100	2	0.4	151	◎	151
比較例 2	60	80	148	145	2	0.2	153	◎	152
比較例 3	20	98	10	8	2	37	16	×	6
比較例 4	50	81	16	14	2	65	33	×	20

* 1) 数値中に「-」の付くものは、測定値に「-」が付くことを示す。

Family:

Publication number	Publication date	Application number	Application date
■ CN1239599 C	20060201	CN20021007415	20020315
■ CN1375517 A	20021023	CN20021007415	20020315
■ DE60239028 D1	20110310	DE20026039028	20020314
■ EP1249339 A1	20021016	EP20020005871	20020314
■ EP1249339 B1	20110126	EP20020005871	20020314
■ EP1249339 B2	20141022	EP20020005871	20020314
■ JP2002361712 A2	20021218	JP20020070140	20020314
■ JP3964234 B2	20070822	JP20020070140	20020314
■ US2003032722 AA	20030213	US20020096664	20020314
■ US6764766 BB	20040720	US20020096664	20020314

Priority:

JP20010073996 20010315 JP20020070140 20020314

Probable Assignee: MITSUBISHI CHEMICAL CORP

Assignee(s): (std): MITSUBISHI RAYON CO

Assignee(s): MITSUBISHI RAYON CO LTD ; MITSUBISHI CHEMICAL CORP

Inventor(s): (std): KAZUHIKO HAMAIKE SACHIRO FUJII ; KITAIKE YUKIO ; NAKAGAWA KAZUHIKO ; SACHIRO HAMAIKE ; KAZUHIKO NAKAGAWA ; HIDEYUKI FUJII ; FUJII HIDEYUKI

Inventor(s): HAMAIKE SACHIRO ; HAMAIKE SACHIRO FUJII HIDEYUKI NAKAGAWA KAZUHIKO

Agent(s): TER MEER STEINMEISTER AND PARTNER GBR; TER MEER STEINMEISTER AND PARTNER

Designated states: DE FR GB

Title: EXTERIOR BUILDING MATERIAL HAVING A HOLLOW THIN WALL PROFILE AND AN **EMBOSSED** LOW **GLOSS** SURFACE

Abstract: A building product which includes a hollow extrudate, unitary reinforcing ribs resisting collapse of the hollow extrudate and, in an embodiment, an exterior surface comprises a low **gloss**, textured **pattern** having a **gloss** level of less than about 50 on a 60 degrees glossmeter, in which the textured **pattern** extends for about 2-20 feet. Methods and an apparatus for manufacturing such products are also provided by this invention.

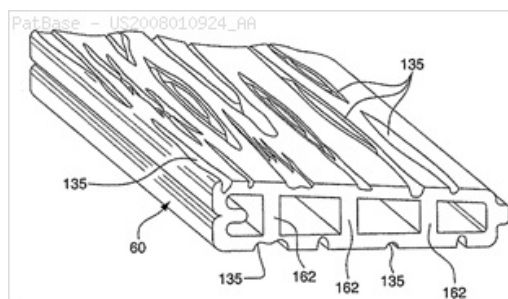
Classifications:

International (IPC 8-9): B29C47/00 B29C47/04 B29C47/06 B29C47/08 B29C47/12 B29C59/02 B29C59/04 B29C59/06 B44F9/02 E04B2/00 E04B2/08 E04C1/00 E04C2/20 E04C2/22 E04C2/32 E04C2/36 E04C2/38 E04C3/00 E04F15/02 E04F15/10 E04H17/16 (Advanced/Invention); B29C47/02 B29L24/00 B29L31/60 (Advanced/Non-invention); B29C47/04 B29C47/08 B29C59/02 B44F9/00 E04C1/00 E04C2/10 E04C2/38 E04F15/02 E04F15/10 E04H17/16 (Core/Invention)

CPC: E04C2/20 B29C47/0028 B29C47/0038 B29C47/0054 B29C47/02 B29C47/046 B29C47/12 B29C59/04 B29C59/06 B29K2995/0072 B29L2024/006 B29L2031/60 E04C2/36 B29C47/128

European: B29C47/00J8 B29C47/00L B29C47/04A2 B29C47/12 B29C59/04 B29C59/06 B29C69/02C E04C2/20 E04C2/36 L29C47/00L7 L29C47/02 L29K995/00F19 L29L24/00D L29L31/60

US: 264/177.17 264/177.170P 264/177.19 264/177.190S 425/112 425/112S 425/113 425/113S 52/309.1 52/309.100P 52/313 52/313P 52/580 52/580S 52/588.1 52/588.100S 52/589.1 52/590.1 52/590.3 52/630



Family:

Publication number	Publication date	Application number	Application date
CA2593188 AA	20080112	CA20072593188	20070706
CA2683214 AA	20080112	CA20072683214	20070706
US2008010924 AA	20080117	US20070773108	20070703
US2010032861 AA	20100211	US20090578654	20091014
US2010107530 AA	20100506	US20100685800	20100112
US8955281 BB	20150217	US20100685800	20100112

Priority:

US19980190038 19981112	US20000735681 20001213	US20020281795 20021028
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US20100685800 20100112		

Probable Assignee: CERTAINTED CORP

Assignee(s): (std): BOSLER KENNETH D ; CERTAIN TEED CORP ; DUNMIRE MARK ; GILBERT THOMAS ; SUCHYNA MARK ; PIETRUCZYNIK CHRISTOPHER B

Assignee(s): PETRUCZYNIK CHRISTOPHER B ; SUCHYNA MARK G ; GILBERT THOMAS C ; DUNMIRE MARK J ; CERTAINTED CORP

Inventor(s): (std): BOSLER KENNETH D ; DUNMIRE MARK ; DUNMIRE MARK J ; GILBERT THOMAS ; GILBERT THOMAS C ; PETRUCZYNIK CHRISTOPHER B ; PIETRUCZYNIK CHRISTOPHER B ; SUCHYNA MARK ; SUCHYNA MARK G

Agent(s): BERESKIN AND PARR LLP SENCRL SRL; DUANE MORRIS LLP IP DEPARTMENT; DUANE MORRIS LLP - PHILADELPHIA,IP DEPARTMENT; DUANE MORRIS LLP PHILADELPHIA IP DEPARTMENT; ALEXANDER H; ABEL LAW GROUP LLP

Title: **Embossed** optical polymer **films**

Abstract: A method of making **embossed** optical polymer **films** and **embossed** optical polymer **films** made are described. The **embossed** optical polymer **films** have substantially the same optical properties as unembossed optical polymer **films**. The method includes providing an optical polymer **film** having first and second major surfaces, softening at least one of the first and second major surfaces to produce a softened surface, **embossing** the softened surface to produce an **embossed** optical polymer **film**, and cooling the **embossed** optical polymer **film**.

Classifications:

International (IPC 8-9): B29C59/00 B29C59/02 B29C59/04 B29C59/08 B29D7/00 G02B1/04 G02B5/00 G02B5/02 G02B5/08 G02B5/122 G02B5/124 G02B5/20 G02B5/30 (Advanced/Invention); B29C35/04 B29C59/04 B29L11/00 B29L7/00 (Advanced/Non-invention); B29C59/00 B29C59/02 B29D7/00 G02B1/04 G02B5/00 G02B5/02 G02B5/08 G02B5/12 G02B5/20 (Core/Invention); B29C35/04 B29C59/04 (Core/Non-invention)

International (IPC 1-7): B29C59/04 B29C59/08 B29D11/00 B29D7/00 G02B1/04 G02B5/02 G02B5/08 G02B5/122 G02B5/124 G02B5/20 G02B5/30

CPC: B29C35/045 B29C59/02 B29C59/04 B29L2011/00 B29L2031/722 G02B5/00

European: B29C59/02 G02B5/00 L29C35/04C L29C59/04 L29L11/00 L29L31/722

US: 264/1.6 264/1.7 264/2.7 264/284 264/293 425/385

PatBase - US6096247_A

U.S. Patent

Aug. 1, 2000

Sheet 1 of 8

6,096,247

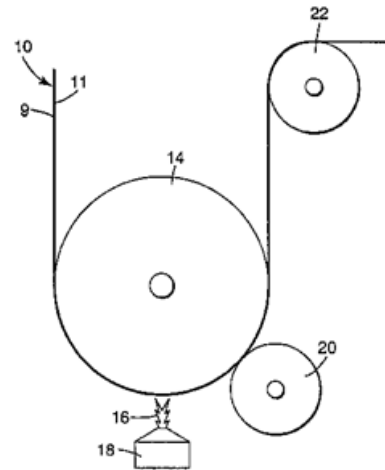


Fig. 1

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EP0976529 A1	20000202	EP19990114925	19990730
EP0976529 B1	20061025	EP19990114925	19990730
JP2000052421 A2	20000222	JP19990200292	19990714
JP2010201936 A2	20100916	JP20100106116	20100506
US6096247 A	20000801	US19980127065	19980731

Priority:

US19980127065 19980731 JP19990200292 19990714

Probable Assignee: 3M CO

Assignee(s): (std): 3M CO ; 3M INNOVATIVE PROPERTIES CO ; 3M INNOVATIVE PROPERTIES COMPA ; THREE M INNOVATIVE PROPERTIES

Assignee(s): MINNESOTA MINING AND MFG ; 3M INNOVATIVE PROPERTIES COMPANY ; THREE M INNOVATIVE PROPERTIES CO ; MINNESOTA MINING AND MFG CO

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Agent(s): YAMADA TAKUJI; NISHISHITA SHOSEKI; YAMAMOTO MUNEO; GOTO HIROKO; TANAKA MITSUO

Designated states: DE FR GB IT

Title: DOSAGE FORMS HAVING AN INNER CORE AND OUTER SHELL

Abstract: In one embodiment, the dosage form of this invention comprises a core having an outer surface and a shell having outer and inner surfaces, wherein the shell surrounds the core such that the shell inner surface resides substantially conformally upon the core outer surface, the shell thickness is in the range of about 100-400 **microns**, the relative standard deviation of the shell thickness on the dosage form is less than about 30 percent, the shell comprises less than about 50 percent crystallizable sugar, and the dosage form is substantially free of charge control agents. In another embodiment, the dosage form comprises a core having an outer surface and a shell having outer and inner surfaces, wherein the shell surrounds the core, the dosage form moisture uptake at 60 minutes exposure to 40 degrees centigrade and 75 percent relative humidity is less than about 0.80 percent, the shell thickness is in the range of about 100-400 **microns**, the relative standard deviation of the shell thickness on the dosage form is less than about 30 percent, the dosage form is substantially free of charge control agents and the shell is substantially free of a raised seam.

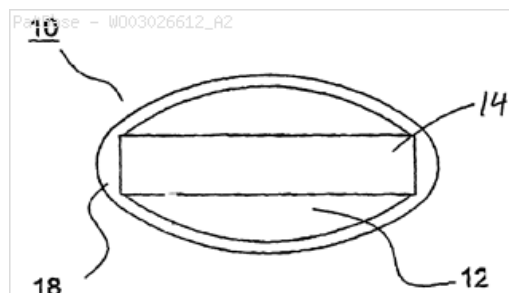
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International (IPC 8-9): A23G1/00 A23G1/54 A23G3/00 A23G3/04 A23G3/34 A23G3/36 A23G3/54 A23L1/00 A23L1/09 A23L1/30 A61J3/00 A61J3/06 A61J3/10 A61K31/136 A61K31/137 A61K31/167 A61K31/277 A61K47/06 A61K47/10 A61K47/14 A61K47/26 A61K47/30 A61K47/32 A61K47/34 A61K47/36 A61K47/38 A61K47/42 A61K47/44 A61K47/46 A61K9/00 A61K9/14 A61K9/20 A61K9/22 A61K9/24 A61K9/26 A61K9/28 A61K9/30 A61K9/32 A61K9/34 A61K9/36 A61K9/38 A61K9/40 A61K9/42 A61K9/48 A61P11/00 A61P29/00 A61P29/02 B30B11/08 B30B11/34 B30B15/30 G06F17/30 (Advanced/Invention); A61K9/50 (Advanced/Non-invention); A23G3/00 A23G3/02 A23G3/34 A61J3/00 A61J3/10 A61K31/167 A61K47/06 A61K47/26 A61K47/42 A61K9/00 A61K9/20 A61K9/24 A61K9/28 A61K9/30 A61P29/00 B30B11/00 B30B11/02 (Core/Invention); A61K9/50 (Core/Non-invention)

International (IPC 1-7): A23G3/00 A61K9/00 A61K9/20 A61K9/28

CPC: A61K9/2853 Y10T428/1352 A23G3/04 A23G1/54 A23G3/0029 A23G3/368 A23G3/54 A61J3/005 A61J3/06 A61J3/10 A61K9/0004 A61K9/0056 A61K9/2013 A61K9/2018 A61K9/2027 A61K9/2031 A61K9/2054 A61K9/2068 A61K9/2072 A61K9/2081 A61K9/209 A61K9/2095 A61K9/282 A61K9/2826 A61K9/284 A61K9/286 A61K9/2873 A61K9/2886 A61K9/2893 A61K9/5084 B30B11/08 B30B11/34 B30B15/302 A23L29/30

European: A23G1/54 A23G3/00 A23G3/00+D4 A23G3/00P2M8F A23G3/04 A23G3/36M4 A23G3/54 A23L1/09 A61J3/00C A61J3/06 A61J3/10 A61K9/00L4 A61K9/00M18B A61K9/20H4 A61K9/20H4B A61K9/20H6B A61K9/20H6D A61K9/20K A61K9/20K2B A61K9/20K4B A61K9/20P A61K9/28H4 A61K9/28H4B A61K9/28H6B A61K9/28H6F A61K9/28H6H A61K9/28K A61K9/28P B30B11/08 B30B11/34 B30B15/30B K61K9/20H4 K61K9/20H4B K61K9/20H6F2 K61K9/20H8 K61K9/20K2B K61K9/20P K61K9/28H6D K61K9/28H6H K61K9/28P K61K9/50M

**Family:**

Publication number	Publication date	Application number	Application date
AT376826 E	20071115	AT20020783988T	20020928
AT404179 E	20080815	AT20020799684T	20020928
CN100364515 C	20080130	CN20028023372	20020928
CN100408029 C	20080806	CN20028023430	20020928
CN1592610 A	20050309	CN20028023347	20020928
CN1592611 A	20050309	CN20028023344	20020928
CN1592612 A	20050309	CN20028023354	20020928
CN1592613 A	20050309	CN20028023372	20020928
CN1596100 A	20050316	CN20028023638	20020928
CN1596101 A	20050316	CN20028023650	20020928
CN1596102 A	20050316	CN20028023540	20020928
CN1596104 A	20050316	CN20028023641	20020928
CN1607945 A	20050420	CN20028023430	20020928
CN1638740 A	20050713	CN20028023361	20020928
CN1946378 A	20070411	CN20028023542	20020928
PL369134 A1	20050418	PL20020369134	20020928
WO03026612 A2	20030403	WO2002US31066	20020928
WO03026612 A3	20030626	WO2002US31066	20020928
WO03026613 A1	20030403	WO2002US31067	20020928
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WO03026615 A2	20030403	WO2002US31116	20020928
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WO03026616 A1	20030403	WO2002US31164	20020928
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WO03026625 A1	20030403	WO2002US31024	20020928
WO03026625 C2	20040506	WO2002US31024	20020928
WO03026626 A2	20030403	WO2002US31062	20020928
WO03026626 A3	20031016	WO2002US31062	20020928
WO03026627 A1	20030403	WO2002US31163	20020928
WO03026628 A2	20030403	WO2002US31063	20020928
WO03026628 A3	20030501	WO2002US31063	20020928
WO03026629 A2	20030403	WO2002US31117	20020928
WO03026629 A3	20040304	WO2002US31117	20020928
WO03026630 A1	20030403	WO2002US31129	20020928

Priority:

US20010966450 20010928 US20010966497 20010928 US20010966939 20010928
US20010966509 20010928 US20010967414 20010928

Probable Assignee: MCNEIL PPC INC

Assignee(s): (std): BUNICK FRANK J ; BURKE JOHN ; GILMOR TIMOTHY P ; LABELLA GUS B ; LEE DER YANG ; MCNEIL PPC INC ; SOWDEN HARRY S ; THOMAS MARTIN ; MCNALLY GERARD P ; LI SHUN POR ; PARIKH NARENDRA ; MCTEIGUE DAN ; WYNN DAVID ; SOWDEN HENRY S ; MCTEIGUE DANIEL

Inventor(s): (std): DANIEL MCTEIGUE ; DAVID WYNN ; DER YANG LEE ; BNICK F J ; BUNICK FRANK ; BUNICK FRANK J ; LABELLA GUS B ; LEE DER YANG ; LI D Y ; NARENDRA PARIKH ; SHUN POR LI ; SODEN H S ; SOWDEN HARRY ; SOWDEN HARRY S ; SOWDEN HENRY S ; THOMAS MARTIN ; TOMAS M ; WYNN DAVID ; PARIKH NARENDRA ; MCTEIGUE DANIEL ; MCTEIGUE DAN ; LI SHUN POR ; GILMOR TIMOTHY P ; BURKE JOHN ; BUNICK FRANK J LEE DER YANG MC ; MARTIN THOMAS ; MCNALLY GERARD P ; MCNALLY G P

Inventor(s): MTOMAS ; M TOMAS ; D Y LI ; D YLI ; F J BNICK ; FJBNICK ; G P MCNALLY ; GPMC NALLY ; H S SODEN ; HSSODEN

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

Title: DIGITALLY INJECTED DESIGNS IN POWDER SURFACES

Abstract: The disclosure relates to a building panel, comprising a solid decorative surface having a decorative wear layer, comprising fibres, binders, colour substance, wear resistant particles and a digital ink print, and a method to produce such a panel.

Classifications:

International (IPC 8-9): B27N7/00 B32B21/02 B32B21/08 B32B33/00

B32B37/24 B32B38/04 B32B38/06 B32B38/14 B44C1/24 B44C5/04

B44F9/02 E04C2/24 E04F15/02 (Advanced/Invention);

B32B21/08 B32B37/24 B32B38/04 E04C2/24 (Advanced/Non-invention)

CPC: B32B38/06 B32B38/145 B32B21/02 B32B21/06 B32B37/24

B32B2255/08 B32B2255/28 B32B2307/4023 B32B2307/554 B32B2451/00

B32B2471/00 B44C5/0476 E04F13/0866 E04F13/0894 E04F15/02038

E04F15/107 E04F2201/0153 B44C5/0446 B32B21/08 B32B33/00

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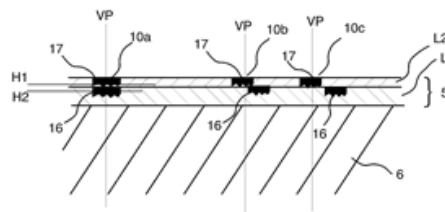
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L32B471/00 P04F201/01D

PatBase - WO11129757_A1

Fig. 4a



Family:

Publication number	Publication date	Application number	Application date
CN102917888 A	20130206	CN201180026771	20110412
CN102917888 B	20160817	CN201180026771	20110412
CN106042755 A	20161026	CN201610546268	20110412
DE602011036936 D1	20170524	DE201160036936T	20110412
EP2558306 A1	20130220	EP20110769174	20110412
EP2558306 A4	20150225	EP20110769174	20110412
EP2558306 B1	20170412	EP20110769174	20110412
EP2839957 A1	20150225	EP20140193901	20110412
PL2558306 T3	20170929	PL20110769174T	20110412
TR201707682 T4	20170621	TR20170007682T	20110412
WO11129757 A1	20111020	WO2011SE50449	20110412

Priority:

SE20100050364 20100413 EP20110769174 20110411 CN201180026771 20110412
WO2011SE50449 20110412 EP20110769174 20110412

Probable Assignee: VAELINGE INNOVATION AB

Assignee(s): (std): CERALOC INNOVATION BELGIUM ; CERALOC INNOVATION BELGIUM BVBA ; HAAKANSSON NICLAS ; PERVAN DARKO ; JACOBSSON JAN ; RYBERG MELKER ; ZIEGLER GOERAN ; VAELINGE INNOVATION AB ; VALINGE INNOVATION AB

Assignee(s): HAAKANSSON NICLAS

Inventor(s): (std): ZIEGLER GORAN ; HAAKANSSON NICLAS ; ZIEGLER GOERAN ; RYBERG MELKER ; PERVAN DARKO ; JACOBSSON JAN ; HAAKANSSON NICLAS

Inventor(s): DARKO PERVAN ; GOERAN ZIEGLER ; JAN JACOBSSON ; MELKER RYBERG ; NICLAS HAAKANSSON

Agent(s): Westeman Maria; WESTEMAN MARIA; HALISE BETUEL ATABAY VARLIK; ENGSTRAND OLA

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

Title: SCRATCH-RESISTANT **FILM**

Abstract: The present invention provides a paint **film** which is superior in scratch resistance, weather resistance, stain resistance, chemical resistance, bending durability and **impact resistance**, and is useful as a scratch resistant **film** or a decorative **film**. The **film** is obtained by cross-linking a vinyl compound copolymer with polyisocyanate, wherein the vinyl compound copolymer comprises the following monomer units: (A) a mole percent of a vinyl compound which has no siloxane structure, nor hydroxyl group; (B) b mole percent of a vinyl compound which has a polydimethylsiloxane structure and no hydroxyl group; (C) c mole percent of a vinyl compound which has a linear or branched alkyl group having a hydroxyl group, the alkyl group having 1 to 6 carbon atoms; and (D) d mole percent of a vinyl compound represented by the formula: $\text{CH}_2=\text{C}(\text{R})-\text{COO}-\text{Y}$ wherein R is H or CH_3 , and Y is a saturated hydrocarbon group with a hydroxyl group at an end and, optionally, one or more lactone, carbonate, ester, ether, or urethane groups.

Classifications:

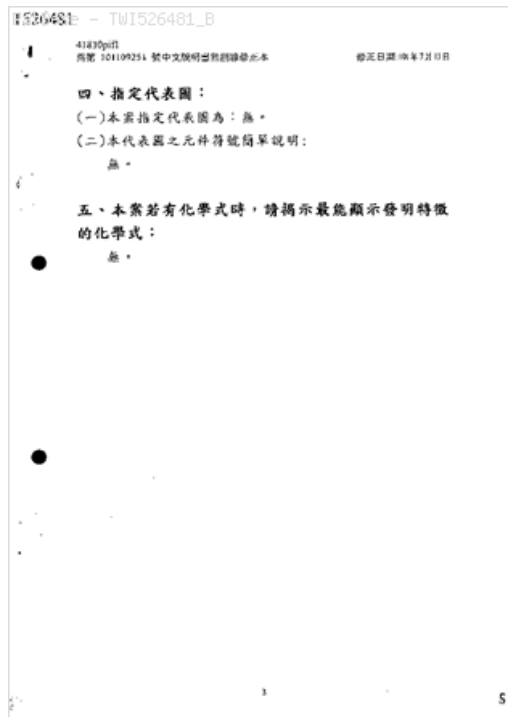
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C09D175/04 (Advanced/Invention)

CPC: C08F20/10 C08G18/6295 C08G18/792 C08J2387/00 C09D175/04 Y10T428/31551 C08J7/047 C08J2367/02 C08J2375/04 C08J2475/04 C08J5/18

European: C08G18/62W C09D175/04

US: 1/1 428/423.1 525/326.5

**Family:**

Publication number	Publication date	Application number	Application date
CN103517933 A	20140115	CN201280022823	20120307
CN103517933 B	20151125	CN201280022823	20120307
DE602012010742 D1	20151029	DE201260010742T	20120307
EP2690119 A1	20140129	EP20120760111	20120307
EP2690119 A4	20140917	EP20120760111	20120307
EP2690119 B1	20150916	EP20120760111	20120307
JP2012197378 A2	20121018	JP20110062883	20110322
JP5894741 B2	20160330	JP20110062883	20110322
KR20140018300 A	20140212	KR20137027387	20120307
TW201247750 A	20121201	TW20120109251	20120319
TWI526481 B	20160321	TW20120109251	20120319
US2014057117 AA	20140227	US20120006377	20120307
US9133289 BB	20150915	US20120006377	20120307
WO12128050 A1	20120927	WO2012JP55871	20120307

Priority:

JP20110062883 20110322 EP20120760111 20120307 WO2012JP55871 20120307

Probable Assignee: RIKEN TECHNOS CORP

Assignee(s): (std): RIKEN TECHNOS CORP ; SUZUKI YASUHIRO

Inventor(s): (std): SUZUKI YASUHIRO

Agent(s): JANSEN CORNELIS MARINUS; MATSUI MITSUO; WILLIAM H; ECKERT SEAMANS CHERIN AND MELLOTT LLC; MATSUI MITSUO 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 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

Title: THERMOFORMED, EXTRUDED SHEETING WITH REDUCED GLOSS

Abstract: The invention is directed to compositions comprising an elastomer component and a propylene component, and in which the elastomer component comprises at least one ethylene/alpha-olefin polymer, optionally containing a diene, and the polypropylene component comprises at least one branched polypropylene. Preferably, the elastomer component has a melt tan delta between about 0.7 and about 8, as measured by parallel plate rheometer at 0.1 rad/sec, 190 degrees centigrade, and 15 percent strain; and the ratio of the "melt tan delta of the elastomer component" to the "melt tan delta of the propylene component" is from 0.5 to 4. The invention also provides for method of making such compositions, and to low gloss articles prepared from the same. The inventive compositions are particularly suitable for fabricating thermoformed sheeting with reduced gloss.

Classifications:

International (IPC 8-9): B29C51/00 C08F210/16 C08J5/18 C08K3/00 C08K5/00 C08L23/00 C08L23/04 C08L23/10 C08L23/12 C08L23/16 C08L23/26 C08L83/04 (Advanced/Invention);

B29C51/00 C08F210/00 C08J5/18 C08K3/00 C08L23/00 C08L23/10 C08L23/16 C08L83/00 (Core/Invention)

International (IPC 1-7): B29C B29C 51/00 C08L 23/10 C08L 23/16 C08L23/16

CPC: B29C49/0005 B29C51/002 B29K2023/083 B29K2023/12 B29L2031/3005 B29L2031/3008 B29L2031/3014 B29L2031/3026 C08L23/0815 C08L23/16 C08L2207/07 C08L23/10

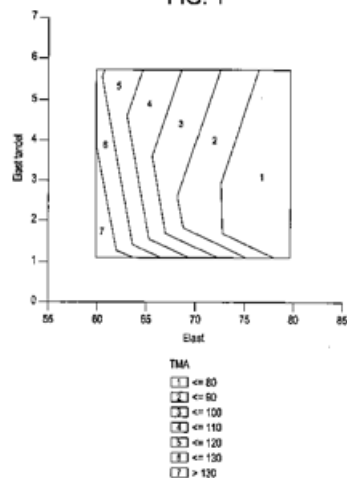
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US: 156/242 524/425 524/500 525/191 525/232 525/240 525/240P

PatBase - US2007167575_AA

Patent Application Publication Jul 19, 2007 Sheet 1 of 5 US 2007/0167575 A1

FIG. 1



Family:

Publication number	Publication date	Application number	Application date
AT425217 E	20090315	AT20060759318T	20060508
CA2606584 AA	20071031	CA20062606584	20060508
CN101175811 A	20080507	CN200680016216	20060508
CN101175811 B	20110817	CN200680016216	20060508
DE602006005645 D1	20090423	DE200660005645T	20060508
EP1882014 A1	20080130	EP20060759318	20060508
EP1882014 B1	20090311	EP20060759318	20060508
ES2320591 T3	20090525	ES20060759318T	20060508
IN05072CN2007 A	20080530	IN2007CN05072	20071112
IN274468 B	20160729	IN2007CN05072	20071112
JP2008540769 T2	20081120	JP20080511240T	20060508
JP5318567 B2	20131016	JP20080511240T	20060508
KR101338569 B1	20131212	KR20077028888	20060508
KR101338569 B9	20140402	KR20077028888	20060508
KR20080022098 A	20080310	KR20077028888	20060508
MX2007014047 A1	20080212	MX20070014047	20060508
TH84636 A	20070524	TH20061002152	20060515
US2007167575 AA	20070719	US20060429836	20060508
US8304496 BB	20121106	US20060429836	20060508
WO06124369 A1	20061123	WO2006US17728	20060508

Priority:

US20050680339P 20050512

US20060429836 20060508

WO2006US17728 20060508

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Inventor(s): (std): WALTON KIM ; WALTON KIM LOUIS ; WASZECIAK DOUGLAS ; WASZECIAK DOUGLAS P ; WEAVER LAURA ; WEAVER LAURA BAUERLE ; WEAVER LAURA B ; WALTON KIM L

Inventor(s): DOUGLAS P WASZECIAK ; KIM LOUIS WALTON ; LAURA BAUERLE WEAVER

Agent(s): SMART AND BIGGAR; HAYES ADRIAN CHETWYND; THE DOW CHEMICAL COMPANY; DOW CHEMICAL CO

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 KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH

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Title: MONOLITHIC THREE-DIMENSIONAL COMPOSITE AND METHOD OF MAKING SAME

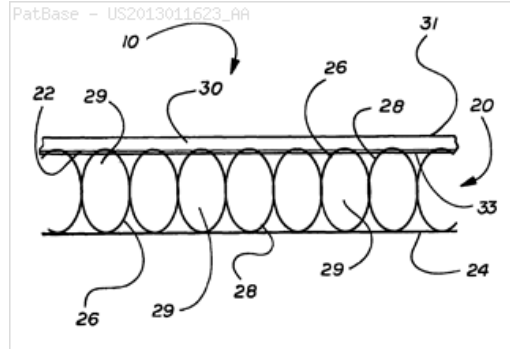
Abstract: Described herein is a monolithic three-dimensional composite having a three-dimensional **layer** impregnated with an outer **layer** of polyurea, polyurethane, or a blend thereof. In one aspect the three-dimensional **layer** is woven fabric of a plain 4-**layer** tubular weave. Optionally, the outer **layer** has a three-dimensional relief to simulate three-dimensional structures.

Classifications:

International (IPC 8-9): B29C39/10 B32B27/12 B32B3/10 B32B3/30 B32B5/02 B32B5/14 B32B5/18 B32B5/24 B32B5/28 D03D11/02 D03D25/00 D06N3/00 D06N7/00 E02B3/12 E04C2/22 (Advanced/Invention)

CPC: E04F13/0866 E04F13/185 E04F15/107 D03D15/00 D06N7/0007 D10B2321/022 D10B2331/04 D06N3/0006 D06N3/005 D06N3/14 D06N7/001 D06N2211/063 D06N2211/066 Y10T428/24512 Y10T428/24612 Y10T428/2481 Y10T442/3065 Y10T442/3089 Y10T442/3195 D03D11/02 D03D13/008

US: 264/279.1 428/160 428/172 428/196 442/189 442/192 442/205



Family:

Publication number	Publication date	Application number	Application date
US2013011623 AA	20130110	US20120542923	20120706
WO13009612 A1	20130117	WO2012US45741	20120706

Priority:

US20110505605P 20110708 US20120542923 20120706

Probable Assignee: HANSON GROUP LLC

Assignee(s): (std): NICOLON CORP D B A TENCATE GEOSYNTHETICS NORTH ; KING KEVIN NELSON ; JONES DAVID MICHAEL ; JOHNSON RANDY EUGENE ; MCINTYRE JOHN B ; NICOLON CORP DOING BUSINESS TENCATE GEOSYNTHETICS NORTH AMERICA AS ; NICOLON CORP D B A TENCATE GEOSYNTHETICS NORTH AMERICA ; DEMAREST CHARLES ; HANSON GROUP LLC ; HANSON JR WALLACE L ; HANSON WALLACE L JR ; STOKES GUY J

Assignee(s): NICOLON D B A TENCATE GEOSYNTHETICS NORTH AMERICA CORP ; NICOLON DOING BUSINESS TENCATE GEOSYNTHETICS NORTH AMERICA CORP AS ; NICOLON DOING BUSINESS TENCATE GEOSYNTHETICS NORTH AMERICA AS CORP ; NICOLON D B A TENCATE CORP ; NICOLON D B A TENCATE GEOSYNTHETICS NORTH AMERICA

Inventor(s): (std): DEMAREST CHARLES ; HANSON JR WALLACE L ; HANSON WALLACE L JR ; JOHNSON RANDY EUGENE ; JONES DAVID MICHAEL ; KING KEVIN NELSON ; MCINTYRE JOHN B ; STOKES GUY J

Agent(s): ARNOLD JEFFERY B

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 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

Title: Decorative **sheet** for flooring material and method for preparation thereof

Abstract: The present invention provides a decorative **sheet** for floor material, in which a synthetic resin **layer** (backer **layer**) that is a **polypropylene** resin **layer** is adhered to a decoration **sheet** (decorative **sheet** intermediate). The decorative **sheet** for floor material offers improved adhesion between the backer **layer** and the decoration **sheet**. More specifically, the present invention provides a decorative **sheet** for floor material comprising a decorative **sheet** intermediate in which one or more **layers** are laminated on the front surface of a base material **sheet**, and a synthesis resin **layer** having a thickness of 150 **micrometres** or more that is formed on the back surface of the base material **sheet** via an adhesive **layer**, wherein (1) the synthetic resin **layer** comprises two or more **polypropylene** resin **layers**, and (2) of the two or more **polypropylene** resin **layers**, the **polypropylene** resin **layer** in contact with the base material **sheet** has a flexural rigidity of 200 to 500 MPa.

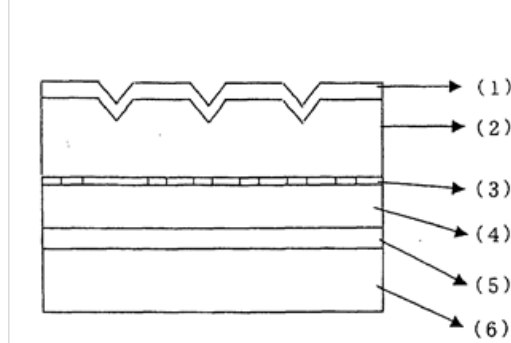
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International (IPC 8-9): B32B27/32 E04F15/02 (Advanced/Invention)

CPC: B32B7/12 B32B27/08 B32B27/32 B32B2250/24 B32B2250/242
B32B2255/10 B32B2255/26 B32B2307/412 B32B2451/00 B32B2471/00
E04F15/02

European: B32B27/08 B32B27/32 B32B7/12 E04F15/02 L32B250/24
L32B250/24A L32B255/10 L32B255/26 L32B307/412 L32B451/00
L32B471/00

FIG. 1 - EP2308678_A1



Family:

Publication number	Publication date	Application number	Application date
DE602009007608 D1	20120816	DE200960007608T	20091006
EP2308678 A1	20110413	EP20090012646	20091006
EP2308678 B1	20120620	EP20090012646	20091006

Priority:

EP20090012646 20091006

Probable Assignee: DAINIPPON PRINTING CO LTD

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

Assignee(s): DAI NIPPON PRINTING CO ; DAI NIPPON PRINTING CO LTD

Inventor(s): (std): KAYAHARA TOSHINARI ; MASUDA HIROSHI ; MATSUKAWA YASUHIRO ; NAKAYAMA HIROAKI

Agent(s): MUELLER BORE AND PARTNER PATENTANWALTE PARTG MBB; MUELLER BORE AND PARTNER
PATENTANWALTE

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO
RS SE SI SK SM TR

Title: DIGITALLY INJECTED DESIGNS IN POWDER SURFACES

Abstract: Building panels and a method to produce such panels including a solid decorative surface having a decorative wear layer including fibres, binders, colour substance, wear resistant particles and a digital ink print.

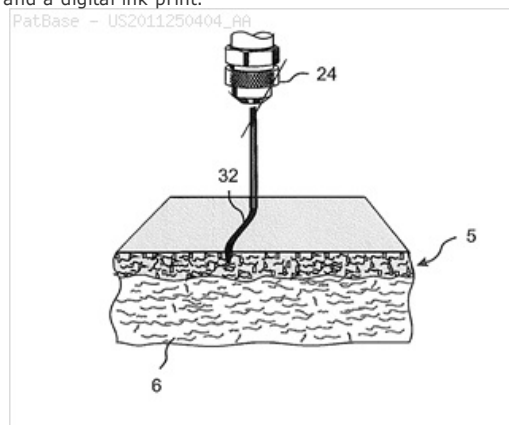
Classifications:

International (IPC 8-9): B05D1/36 B05D3/12 B32B3/30 B32B7/00 (Advanced/Invention)

CPC: B44C5/0446 B44C5/0476 E04F13/0866 E04F13/0894 E04F15/02038 E04F15/107 E04F2201/0153 Y10T428/2462 Y10T428/24868 Y10T428/24893

European: B44C5/04L B44C5/04R2 E04F13/08E E04F13/08R3 E04F15/02B E04F15/10C P04F201/01D

US: 427/264 427/264S 427/265 427/265S 428/173 428/173P 428/203 428/203S 428/206 428/206S



Family:

Publication number	Publication date	Application number	Application date
US2011250404 AA	20111013	US20110084974	20110412

Priority:

US20100323573P 20100413 US20110084974 20110412

Probable Assignee: CERALOC INNOVATION BELGIUM BVBA

Assignee(s): (std): CERALOC INNOVATION BELGIUM ; CERALOC INNOVATION BELGIUM BVBA

Assignee(s): VALINGE INNOVATION AB

Inventor(s): (std): ZIEGLER GORAN ; RYBERG MELKER ; PERVAN DARKO ; JACOBSSON JAN ; H KANSSON NICLAS

Title: LIGHT DIFFUSION **SHEET** FOR A DISPLAY DEVICE

Abstract: A light diffusion **sheet** for a display device includes a base **layer** having a base resin mixture of a methacrylate-styrene copolymer and a methylmethacrylate-styrene copolymer and about 0.2 to 20 ppwb of a first light diffuser, and at least one coating **layer** on the base **layer**, the coating **layer** including a methylmethacrylate-styrene copolymer base coating resin, about 0.1 to 30 ppwb of a second light diffuser, about 0.01 to 2 ppwb of an UV absorber, and about 0.001 to 10 ppwb of an antistatic agent.

Classifications:

International (IPC 8-9): G02B1/04 G02F1/13363 B32B27/08 B32B27/28 B32B3/00 G02B1/10 G02B5/02 G02F1/1335

G02F1/13357 (Advanced/Invention);

G02B5/02 (Advanced/Non-invention);

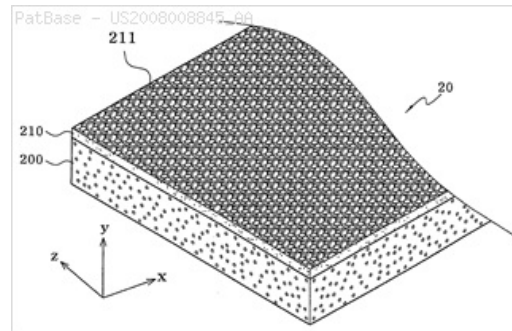
B32B27/08 B32B27/28 B32B3/00 G02B1/04 G02B1/10 G02B5/02

G02F1/13 (Core/Invention)

CPC: C08J7/042 C08J7/047 C08J2425/00 Y10T428/1036 Y10T428/24628 Y10T428/26 Y10T428/269 Y10T428/3175 Y10T428/31797 Y10T428/31855 G02B5/0242 C08G77/04 C08K5/0008 C08L33/12 G02B5/0215 G02B5/0226

European: M08J425/00

US: 428/1.3 428/1.300P 428/13 428/174 428/174S 428/332 428/332S 428/339 428/339S 428/476.3 428/476.300S 428/483 428/483S 428/500 428/500S



Family:

Publication number	Publication date	Application number	Application date
CN100538407 C	20090909	CN200710126076	20070706
CN101109829 A	20080123	CN200710126076	20070706
KR100893520 B1	20090417	KR20060122521	20061205
KR20080005048 A	20080110	KR20060122521	20061205
TW200804872 A	20080116	TW20070123144	20070626
TWI345081 B	20110711	TW20070123144	20070626
US2008008845 AA	20080110	US20070822049	20070702

Priority:

KR20060064065 20060707 KR20060122521 20061205

Probable Assignee: CHEIL IND INC

Assignee(s): (std): CHEIL IND INC ; CHOI SEUNG MAN ; OH YOUNG ; CHO CHANG HEE ; CHEIL WOOL FABRIC CO LTD

Assignee(s): CHEIL INDUSTRIES INC ; CHEIL WOOL FABRIC CO ; CHEIL IND

Inventor(s): (std): CHO CHANG HEE ; CHOI SEUNG MAN ; HEE CHO CHANG ; MAN CHOI SEUNG ; OH YOUNG ; YOUNG OH

Agent(s): LEE AND MORSE PC