

Search history

Search 1: ((first or second) near layer) and (fibrous or fibre or fiber) and cellulose* and particle (Results 13356)
Search 2: 1 and tac=(layer and cellulose*) (Results 2938)
Search 3: 2 and (paper near board) (Results 198)
Search 4: (3) AND IPC=(B32 OR D21 OR E04) (Results 162)
Search 5: 4 and ((fibrous or fibre or fiber) near layer) (Results 71)
Search 6: 5 and (board) (Results 71)
Search 7: 6 and tac=(board) (Results 39)
Search 8: 3 and tac=(board) (Results 94)
Search 9: 8 and ((fibrous or fibre or fiber) near layer) (Results 41)
Search 10: 9 and pd<2015 (Results 35)

1) Family number: 52603002 (US2014231036A)

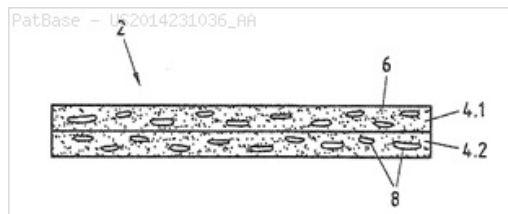
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Title: FIBRE PRODUCT FOR PACKAGING

Abstract: The invention relates to a fibrous product (2, 2.1, 2.2, 2.3) for packaging, in particular food product packaging, comprising at least one first fiber layer (4.1, 4.1', 4.1?, 4.2, 4.2', 4.2?, 4.3?, 4.4?, 4.5?, 4.6?, 14, 16, 18), a filter material (6) for binding mineral oil substances extending at least partly through said first fiber layer (4.1, 4.1', 4.1?, 4.2, 4.2', 4.2?, 4.3?, 4.4?, 4.5?, 4.6?, 14, 16, 18).

Classifications:

International (IPC 8-9): B01D15/08 B32B15/12 B32B23/00 B32B23/06 B32B29/00 B32B29/08 B65D65/38 B65D65/40 B65D85/72 D21F11/04 D21H17/02 D21H17/67 D21H23/04 D21H23/24 D21H23/28 D21H27/00 D21H27/08 D21H27/30 (Advanced/Invention); B01D15/00 B32B15/00 B32B29/00 D21H27/00 (Core/Invention)
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European: B32B23/00
US: 1/1 162/147 162/158 162/175 162/181.9 162/289 206/524.6 210/490 210/690



Family:

Publication number	Publication date	Application number	Application date
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RS56859 B1	20180430	RS20180000169	20120531
RU2553903 C1	20150620	RU20140102227	20120531
SI3175985 T1	20180330	SI20120031208T	20120531
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US2014231036 AA	20140821	US20120128757	20120531
US9051115 BB	20150609	US20120128757	20120531
WO12175309 A1	20121227	WO2012EP60292	20120531

Priority:

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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 LR LK 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

2) Family number: 20669013 (US6531196B)

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Title: COATED BOARD, A PROCESS FOR ITS MANUFACTURE, AND CONTAINERS AND PACKAGING FORMED THEREFROM

Abstract: The invention relates to coated board, a process for its manufacture, and containers and packaging formed therefrom. The board comprises at least one polymer-based coat preventing the transmission of liquids and gases, which coat is according to the invention made from a polymer dispersion to which talc particles are added so that talc will constitute 30-80 percent of the dry weight of the dried coat. The coating is applied onto the board during its manufacture as on-line coating. The board may be, for example, a multi-layer board (2) which has a middle layer (6) containing CTMP or other similar mechanical pulp, on its both sides outer layers (7) formed from sulfate pulp, against these on both sides of the board (2) talc-containing polymeric barrier layers (3), and on one side of the board a heat sealing layer (9) introduced onto the barrier layer (3).

Classifications:

International (IPC 8-9): B65D65/42 D21H11/04 D21H11/08 D21H11/14 D21H19/22 D21H19/36 D21H19/40 D21H19/58 D21H19/82 D21H21/52 D21H27/10 D21H27/38 (Advanced/Invention); D21H11/04 D21H11/08 D21H11/14 D21H19/22 D21H19/58 D21H19/82 D21H21/52 D21H27/38 (Advanced/Non-invention); B65D65/38 D21H19/00 D21H21/00 D21H27/10 (Core/Invention); D21H11/00 D21H21/00 D21H27/30 (Core/Non-invention)

International (IPC 1-7): A21D13/00 A23L1/48 B32B B32B19/38 B32B19/80 B32B27/10 B32B29/04 B32B65/40 C08K3/34 D21H D21H19/36 D21H19/38 D21H27/10 D21J1/08

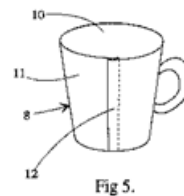
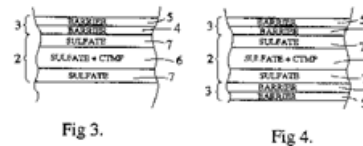
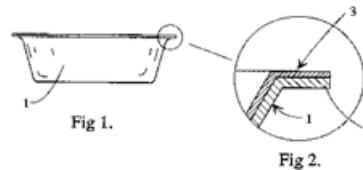
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US: 427/391 427/411 428/34.2 428/34.3 428/342 428/343 428/496 428/507 524/13 524/451

PatBase - US6531196_BA

U.S. Patent Mar. 11, 2003 Sheet 1 of 2 US 6,531,196 B1



Family:

Publication number	Publication date	Application number	Application date
AT222973 E	20020915	AT19980922828T	19980527
AT397692 E	20080615	AT19980921516T	19980513
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EP0991814 A1	20000412	EP19980921516	19980513
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EP0991815 A1	20000412	EP19980922828	19980527
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FI972246 A0	19970528	FI19970002246	19970528
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US6545079 BA	20030408	US19990449866	19991129
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WO9854410 A1	19981203	WO1998FI00442	19980527

Priority:

FI19970002246 19970528 FI19980000086 19980116 WO1998FI00406 19980513
WO1998FI00442 19980527

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Inventor(s): KIMMO SANTAMAEMI

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; MCCARTHY TETRAULT LLP; LALLI ESKO ET AL

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GE GH GM GN GR HU ID IE IL 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 US UZ VN YU ZW

3) Family number: 29366094 (US2003084634A) © PatBase

Title: TRANSITION MOLDING

Abstract: The invention is a joint cover assembly for covering a gap adjacent an edge of a panel that covers a sub-surface, and a method of covering such a gap. The assembly includes a molding having a flange, a first bar, and a second bar. The flange is positioned along a longitudinal axis, and the first bar extends generally orthogonally from the flange. The second bar extends generally orthogonally from the flange. A tab depends generally orthogonally from the first panel engaging surface. At least one of the tab and the flange engage the edge in order to tightly fit within the gap. The method includes the steps of placing the flange in the gap, pressing the respective panel engaging surfaces into contact with respective panels, and configuring at least one of the tab and the flange to cooperate to retain the molding in the gap when the assembly is in an installed condition.

Classifications:

International (IPC 8-9): A47G27/04 B27M3/04 B27N7/00 B28B1/16 B28B1/30 B28B1/52 B28B19/00 B28B23/02 B28B3/12 B29C65/00 B32B13/02 B32B13/14 B32B15/014 B32B15/14 B32B17/02 B32B17/04 B32B17/06 B32B21/08 B32B27/004 B32B27/012 B32B27/02 B32B27/04 B32B27/12 B32B29/00 B32B3/00 B32B3/10 B32B3/18 B32B3/30 B32B37/00 B32B5/002 B32B5/02 B32B5/16 B32B5/22 C04B11/00 C04B14/38 C04B16/06 C04B2/10 C04B28/00 C04B28/02 C04B28/14 D03D15/00 D03D15/02 D03D15/12 D03D25/00 D21H13/40 D21H27/06 D21H27/28 E04B1/00 E04B1/62 E04B1/68 E04B1/70 E04B1/80 E04B2/00 E04B5/00 E04B5/02 E04C2/04 E04C2/26 E04C2/38 E04C3/00 E04D1/36 E04F11/16 E04F13/073 E04F13/08 E04F13/14 E04F15/02 E04F15/14 E04F19/02 E04F19/04 E04F19/06 E06B1/04 E06B1/70 (Advanced/Invention); C04B28/02 D03D15/00 D21H13/40 D21H27/06 (Advanced/Non-invention); B27M3/04 B28B1/30 B28B1/52 B28B19/00 B28B23/02 B28B3/00 B29C65/00 B32B13/00 B32B15/00 B32B15/14 B32B17/02 B32B17/04 B32B21/00 B32B27/00 B32B27/02 B32B27/04 B32B27/12 B32B29/00 B32B3/00 B32B3/10 B32B3/18 B32B3/30 B32B37/00 B32B5/02 B32B5/22 C04B11/00 C04B14/38 C04B16/00 C04B2/00 C04B28/00 D03D15/00 D03D15/02 D03D15/12 D03D25/00 E04B1/68 E04B2/00 E04C2/04 E04C3/00 E04D1/00 E04F13/08 E04F13/14 E04F15/02 E04F19/02 E04F19/04 (Core/Invention); B32B (Subclass/Invention)

International (IPC 1-7): B23P11/02 B27M3/04 B32B0/00 B32B1/00 B32B13/02 B32B13/14 B32B17/00 B32B17/02 B32B18/00 B32B21/08 B32B27/02 B32B27/04 B32B27/12 B32B3/00 B32B3/10 B32B3/30 B32B5/06 B32B5/08 B32B5/16 B32B5/18 B32B5/24 B32B5/26 B32B5/28 B32B7/00 B32B7/12 D03D15/00 D03D15/08 D03D17/00 D03D25/00 D04H1/00 D04H13/00 D04H3/00 D04H5/00 E04B1/62 E04B1/68 E04B2/00 E04C3/00 E04D1/36 E04F15/02 E04F15/14 E04F19/02 E04F19/06

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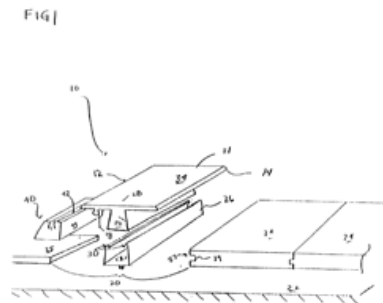
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Locarno class: 25/01

PatBase - US2003084634_AA

Patent Application Publication May 8, 2003 Sheet 1 of 6 US 2003/084634 A1



Family:

Publication number	Publication date	Application number	Application date
AT10644 U1	20090715	AT20050000164U	20050317
AT196338 E	20000915	AT19950936150T	19951017
AT543961 E	20120215	AT20020783373T	20021101
AU199538192 A1	19960515	AU19950038192	19951017
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EP1699622 A4	20100623	EP20040815942	20041229
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EP1853777 A4	20120711	EP20060736214	20060228

ES2150010 T3	20001116	ES19950936150T	19951017
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Probable Assignee: SAINT GOBAIN ADFORS CANADA LTD

Assignee(s): (std): PERSTORP FLOORING AB ; PERGO EUROP AB ; PERGO EUROP TRELLEBORG AB ; BENGTSSON PER ; CERTAIN TEED CORP ; CERTAINTEED CORP ; KORNFAELT SVEN ; KORNFALT SVEN ; PERGO AB ; PERGO EUROP AB TRELLEBORG ; PERSTORP FLOORING AB TRELLEBOR ; PERGO AG ; STANCHFIELD OLIVER ; SJOELIN HANS ; SAINT GOBAIN TECHNICAL FABRICS ; PORTER JOHN F ; STANCHFIELD OLIVER O ; SAINT GOBAIN PROCESS TEXTILES CO LTD ; SJOLIN HANS

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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 PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

4) Family number: 30119111 (US2002187296A)

PatBase

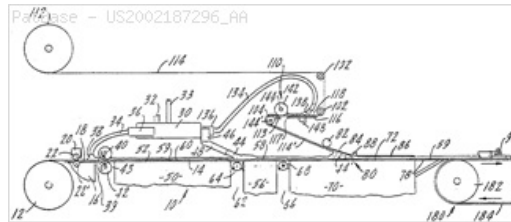
Title: GLASS REINFORCED GYPSUM BOARD AND METHOD OF MANUFACTURE

Abstract: A method of manufacture of multilayer gypsum board, and a multilayer gypsum board, having face sheets comprising randomly oriented inorganic or glass fibers completely impregnated with a gypsum slurry penetrating through the random interstices between the inorganic fibers and coating the board surfaces with gypsum slurry. Wet gypsum board passes through a board forming station having upper and lower forming plates, set at an angle relative to each other and being separated by a predetermined dimension substantially equal to the desired thickness of the manufactured gypsum board product. Additives in the gypsum, such as engineered polymers, provide for a better surface for coating. The gypsum board has a first layer of a mixture of set gypsum having an outer surface and the polymeric compound additive entrained therein and impregnated in a thin sheet of randomly aligned inorganic fibers to essentially encase the core gypsum within two facing layers. An edger bar assembly includes bases mounted on pneumatic arms at opposite lateral ends supporting an edger bar extending therebetween, and each base includes an attached flapper edge mechanism having an inboard surface abutting the gypsum board edge to retain unset slurry skimmed off the wet gypsum board surface by the edger bar from overflowing onto the conveyor belt. A microporous fluid bed mounted longitudinally across the board injects a fluid film under pressure by means of micropores into the interface between the bed surface and the top surface of the gypsum board to provide an ultrasmooth board surface.

Classifications:

International (IPC 8-9): B05D3/00 B05D5/00 B05D7/24 B23B13/04 B28B1/30 B28B1/50 B28B1/52 B28B11/08 B28B19/00 B28B23/00 B28B23/18 B28B5/02 B29D99/00 B32B1/04 B32B13/00 B32B13/02 B32B13/04 B32B13/06 B32B13/08 B32B13/12 B32B13/14 B32B15/08 B32B17/04 B32B17/06 B32B23/04 B32B25/02 B32B25/10 B32B27/04 B32B27/08 B32B27/10 B32B27/12 B32B27/14 B32B27/28 B32B27/30 B32B27/32 B32B27/34 B32B27/36 B32B3/00 B32B3/04 B32B3/06 B32B31/00 B32B5/02 B32B5/12 B32B5/14 B32B5/18 B32B5/22 B32B5/26

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E04C2/26 F16G5/00 (Core/Invention);
B28B B32B D04H F16G (Subclass/Invention)



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156/41 156/41P 156/45 156/52 264/129 264/255 264/256 264/261 264/295 264/339 425/101 425/104 425/110 425/115 425/123
425/130 425/220 425/224 425/346R 425/96 427/299 427/372.2 427/372.200S 428/141 428/141P 428/195.1 428/195.100S
428/201 428/201S 428/218 428/218P 428/306.6 428/306.600S 428/411.1 428/411.100S 428/432 428/432P 428/457 428/457S
428/480 428/480S 428/523 428/523S 428/532 428/532S 428/537.5 428/537.500S 428/67 428/68 428/7 428/70 428/703
428/703S 428/74 428/76 442/172 442/172S 442/2 442/20 442/20S 442/2S 442/327 442/327S 442/331 442/331S 442/394 442/42
442/42P 442/59 442/59S 442/76 442/76S 524/2 524/2S

Family:

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WO06064377 A2	20060622	WO2005IB04064	20051013
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WO07004066 A2	20070111	WO2006IB02341	20060308
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WO10025207 A1	20100304	WO2009US55113	20090827
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WO12097140 A2	20120719	WO2012US21065	20120112
WO12097140 A3	20121227	WO2012US21065	20120112
ZA200309842 A	20050330	ZA20030009842	20031219
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Priority:

US20010875733	20010606	US20010997446	20011130	US20020164108	20020604
EP20020741852	20020605	WO2002US17795	20020605	US20040968680	20041019
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US20080093167P	20080829	US20080238284	20080925	US20080329998	20081208
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EP20090832416	20091204	WO2009US66843	20091204	US20110006691	20110114
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Probable Assignee: CERTAINTED GYPSUM INC**Assignee(s):** (std): BPB IND LTD ; BPB LTD ; BPB LTD A U K CORP ; HAUBER ROBERT J ; SANDERS CHRISTOPHER J ; HENNIS MARK E ; FAHEY MICHAEL P ; BPB PLC ; STUART TROY R ; BOYDSTON GERALD D ; BOYDSTON JERRY D ; CHOWNING MATTHEW J ; WASCOMB GREGORY L ; CERTAINTED GYPSUM INC ; SETEHTNTD DZHIPSUM INK ; HAUBER ROBERT JOSEPH ; CERTAINTED GYPSUM INC STAR**Assignee(s):** CHOWING MATTHEW J ; BPB ; BPB A U K CORP LTD ; BPB A UK BINLEY CORP LTD ; BPB A UK CORP LTD ; BPB PLC PARK HOUSE**Inventor(s):** (std): BOYDSTON GERALD ; BOYDSTON GERALD D ; CHOWNING MATTHEW J ; CHRISTOPHER J SANDERS ; COLLEGE JOHN ; FAHEY MICHAEL ; FAHEY MICHAEL P ; GERKEN ROBERT B ; HAUBER ROBERT ; HAUBER ROBERT J ; CHOWING MATTHEW J ; HENNIS MARK ; HENNIS MARK E ; MARK E HENNIS ; MICHAEL P FAHEY ; MICHAEL P FAHEY ; ROBERT J HAUBER ; ROBERT JHAUBER ; SANDERS CHRISTOPHER ; SANDERS CHRISTOPHER J ; STUART TROY R ; KHOBER ROBERT DZH ; BOYDSTON JERRY D ; BOYDSTON DZHERRI D ; WASCOMB GREGORY L ; JERRY D BOYDSTON ; HENNIS MARK E FAHEY MICHAEL P ; FACH MIKE P ; HAUBER ROBERT JOSEPH**Inventor(s):** GERALD D BOYDSTON ; TROY R STUART ; MIKE P FACH ; MATTHEW J CHOWNING ; SANDERS CHRISTOPHER J SAFETY HARBOR ; STUART TROY ; HENNIS MARK E INDIAN ROCKS BEACH ; CHOWNING MATTHEW ; HAUBER ROBERT J LUTZ ; FAHEY MICHAEL P ST PETERSBURG ; GERKEN ROBERT ; BOYDSTON JERRY ; CHOWING MATTHEW**Agent(s):** CULLENS PATENT AND TRADE MARK ATTORNEYS; SPRUSON AND FERGUSON; CULLENS PTY LTD; CHRYSILOU IP; TATLOCKS CHRYSILOU IP; HALFORDS IP; GOWLING LAFLEUR HENDERSON LLP; RICHES MCKENZIE AND HERBERT LLP; RIDOUT AND MAYBEE LLP; ADOLF LUEKEN HOEFELICH SAWODNY RECHTS U PATENTANWALTE; CHAPMAN HELGA CLAIRE; PUGSLEY VICTORIA ANTONIETTA; BOTELLA ANTONIO; ISERN JORGE; PATENT AND TRADEMARK DOCKET CLERK, RYNDAL AND SURI; PATENT AND TRADEMARK DOCKET CLERK RYNDAL AND SURI; VANGELIS ECONOMOU, C/O IPHORGAN LTD; VANGELIS ECONOMOU C O IPHORGAN LTD; VANGELIS ECONOMOU, C/O IPHORGAN LTD; GRAY ROBINSON ATTN STEFAN V STEIN IP DEPT; RYNDAL AND SURI; VANGELIS; RYNDAL AND SURI VANGELIS ECONOMOU; VANGELIS ECONOMOU IPHORGAN LTD; ECONOMOU IP LAW; GRAYROBINSON PA; MICHAEL J; COLITZ MICHAEL J; ECONOMOU VANGELIS; COLITZ MICHAEL J III**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**5) Family number: 29431120 (US3705938A)**

© PatBase

Title: ACTIVATED POLYMER MATERIALS AND PROCESS FOR MAKING SAME**Abstract:** ABSTRACT OF THE DISCLOSURE This invention concerns non-porous, polymeric articles having active antibacterial, antifungal and combinations of antibacterial and antifungal properties. Said article comprises a preformed, solid, non-porous, polymeric substrate, and a solid non-porous layer of a polymeric composition adherently applied to at least on surface of said substrate, said composition containing at least one activating agent selected from the group consisting of antibacterial, antifungal, and combinations of antibacterial and antifungal activating agents. Said agent is distributed within said polymeric composition of said layer and being capable of migrating from said layer into and throughout said substrate. Said agent is present in said layer in sufficient amount so that upon migration from said layer into said substrate, an effective level of antibacterial, antifungal or a combination of antifungal and antibacterial activity is provided throughout said substrate, and on at least one other surface of said substrate which is not in direct contact with said layer. This application is a continuation-in-part of Ser. No. 593,267, filed Nov. 10, 1966, now abandoned. B**Classifications:****International (IPC 8-9):** A01N25/00 A01N25/10 A01N25/26 A01N25/34

A01P1/00 A01P3/00 A61J3/00 A61L2/16 B32B27/00 B32B27/18

B32B33/00 B32B7/02 C08J5/00 C08J7/04 C08J7/06 C08K5/00

D06M16/00 (Advanced/Invention);

A01N25/00 A01N25/10 A01N25/26 A01N25/34 A01P1/00 A01P3/00

A61L2/16 B32B27/00 B32B27/18 B32B7/02 C08J5/00 C08J7/00

C08K5/00 D06M16/00 (Core/Invention)

International (IPC 1-7): A01N17/00 A01N17/08 A01N17/12 A01N23/00

A01N25/00 A01N25/10 A01N25/26 A01N25/34 A61J3/00 A61K9/70

A61L1/00 A61L13/00 A61L3/00 A61L5/00 B27K1/00 B29C27/10

B32B15/08 B32B21/08 B32B27/00 B32B27/04 B32B27/06 B32B27/08

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C08K5/0008 Y10T156/10 Y10T428/31909 A01N25/34 C08J7/047

C08K5/0075 Y10T428/31652 Y10T428/31692 Y10T428/31699

Y10T428/31739 Y10T428/31786 Y10T428/31797 Y10T428/31884

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D06M16/00 B32B27/08 B32B7/02 B32B27/12 B32B2305/08 B32B2307/21

European: 30I14 45L3K3A A01N25/34 A61L2/16 B32B27/00 B32B27/18

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D06M16/00

US: 156/242 156/244.11 156/308.2 156/60 264/175 264/212 264/215

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US19790032593 19790423

Probable Assignee: HERCULITE PROTECTIVE FAB

Assignee(s): (std): BERNSTEIN BRUCE S ; HERCULES PROTECTIVE FABRIC COR ; HERCULITE PROTECTIVE FAB ; HERCULITE PROTECTIVE FAB US ; HERCULITE PROTECTIVE FABRICS NEWARK NE CORP ; HERCULITE PROTECTIVE FABRICS CORP ; HERCULITE PROTECTIVE FABRICS CORP 1107 BROADWAY N ; HERCULITE PROTECTIVE FAB CORP ; HYMAN SEYMOUR ; KAPOOR RAMESH C ; KHERKYULIT PROTEKTIV FABRIKS CORP FA

Assignee(s): IBJ SCHRODER BANK AND TRUST CO AGENT AS ; KHERKYULIT PROTEKTIV FABRIKS CORP FIRMA ; IBJ SCHRODER BANK AND TRUST CO ; HERCULITE PROTECTIVE FABRICS CORP 1107 BROADWAY NE ; HERCULITE PROTECTIVE FABRICS CORP 1107 BROADWAY NEW YORK N Y E U A ; HERCULITE PROTECTIVE FABRICS NEWARK NEW JERSEY VER ST V AM CORP ; HERCULITE PROTECTIVE FABRIC CORP ; HERCULITE PROTECTIVE FAB CORP US ; HERCULITE PROTECTIVE FABRICS CORP NEW YORK N Y US ; HERCULES PROTECTIVE FABRIC CORP ; HERCULITE PRODUCTS INC ; FIRST NATIONAL BANK OF MARYLAND ; BANK OF TOKYO TRUST CO

Inventor(s): (std): B S BERNSTEIN ; BERNSTEIN B ; BERNSTEIN B S ; BERNSTEIN BRUCE ; BERNSTEIN BRUCE S ; BERNSTEIN BRYUS S ; BRYUS SBERNSTEIN US ; HYMAN S ; HYMAN SEYMOUR ; KAPOOR R ; KAPOOR R C ; KAPOOR RAMESH ; KAPOOR RAMESH C ; KAPUR RAMESH S ; KHIMAN SYUMOR ; R C KAPOOR ; SYUMOR KHIMAN US ; RAMESH SKAPUR US ; S HYMAN

Inventor(s): SEYMOUR HYMAN ; RAMESH S KAPUR US ; HERCULITE PROTECTIVE FABRICS CORP ; BRYUS S BERNSTEIN US ; RAMESH KAPOOR ; KAPOOR RAMESH C SEAFORD DEL US ; KAPOOR R US ; HYMAN SEYMOUR NEW YORK US ; HYMAN S US ; BRUCE S BERNSTEIN ; BRUCE S BERNSTEIN RAMESH C KAPOOR AND SEYMOUR HYMAN ; BERNSTEIN BRUCE S SOMERVILLE N J US ; BERNSTEIN B US

Agent(s): DR YITZHAK HESS AND PARTNERS

6) Family number: 28256132 (US2002069950A)

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Title: GYPSUM/FIBER BOARD WITH IMPROVED IMPACT RESISTANCE

Abstract: A gypsum/fiber board having improved impact resistance is produced by mixing predetermined amounts of fibers, calcined gypsum and water to form a mixture of wetted, loose fibers; laying out a reinforcing mesh over the upper surface of a forming belt; depositing said mixture on said mesh to form a layer of said mixture, said; and compressing said mesh together with said layer of mixture to embed said mesh in the lower surface of said layer to form a board composed of bonded fibers and gypsum with said mesh embedded in the surface thereof.

Classifications:

International (ipc 8-9): B28B1/52 B28B23/00 B28B23/02 B32B13/02 B32B13/14 B32B37/15 B32B37/24 C04B2/02 E04C2/04 (Advanced/Invention); C04B2/02 (Advanced/Non-invention)

International (ipc 1-7): B28B1/52 B28B21/56 B28B23/00 B28B23/02 B32B13/02 B32B13/14 B32B31/06 B32B31/08 B32B31/12 C04B2/02 C04B28/14 E04C2/04

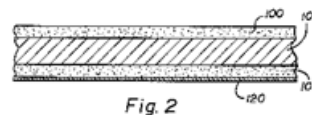
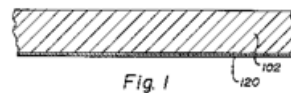
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European: B28B1/52C B28B1/52F B28B19/00K B28B23/00A E04C2/04C

US: 156/346 156/39 156/41 156/41P 156/42 156/44 156/45 156/45S 156/62.2 156/62.200S

PatBase - US2002069950_AA

Patent Application Publication Jun. 13, 2002 Sheet 1 of 3 US 2002/069950 A1



Family:

Publication number	Publication date	Application number	Application date
CA2280393 AA	20000309	CA19992280393	19990817
CA2280393 C	20090526	CA19992280393	19990817
CN1248520 A	20000329	CN19991018576	19990909
DE69917719 D1	20040708	DE19996017719	19990908
DE69917719 D1	20040708	DE19996017719T	19990908
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EP0985504 A1	20000315	EP19990117426	19990908
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JP2000102914 A2	20000411	JP19990291397	19990907
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Priority:

US19980099646P 19980909 US19990370954 19990810 CA19992280393 19990817
CA19992280393 19990817 US20050038004 20050119

Probable Assignee: UNITED STATES GYPSUM CO

Assignee(s): (std): CORMIER GREGORY J ; JONES FREDERICK T ; LYNN MICHAEL R ; NAT GYPSUM CO ; UNITED STATES GYPSUM CO ; USG CORP

Assignee(s): UNITED STATES GYPSUM COMPANY ; UNITED STATES GYPSUM CO CHICAGO ; NATIONAL GYPSUM CO

Inventor(s): (std): LEN M R ; KEMIER G J ; JONES F J ; LYNN MICHAEL R ; JONES FREDERICK T ; CORMIER GREGORY J

Inventor(s): CORMIER GLADYS CEDELLA ; M R LEN ; G J KEMIER ; F J JONES

Agent(s): MACRAE AND CO; NOVAK DRUCE AND QUIGG LLP

Designated states: DE FR IT

7) Family number: 8349171 (US5648154A)

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Title: INORGANIC CONSTRUCTIONAL BOARD AND METHOD OF MANUFACTURING THE SAME

Abstract: PCT No. PCT/JP92/00970 Sec. 371 Date Feb. 2, 1994 Sec. 102(e) Date Feb. 2, 1994 PCT Filed Jul. 31, 1992 PCT Pub. No. WO93/03238 PCT Pub. Date Feb. 18, 1993An inorganic constructional board for use as wall backing material or the like comprises a middle layer portion (1a) formed mainly of inorganic foamed material with an adequate quantity of fibrous material and binder added thereto, and outer layer portions (1b) placed on both surfaces of the middle layer portion (1a), the outer layer portion being formed mainly of mineral fiber material and inorganic powder material with binder added thereto. The middle layer portion (1a) has a specific gravity of less than 0.4, and the outer layer portions (1b) have a specific gravity of more than 0.7. Therefore, the board is more lightweight than a plaster board and has performance characteristics equivalent to or better than those of the plaster board. The inorganic constructional board (1) is manufactured by forming a wet inorganic mat which constitutes a lower layer portion (1b) of the above mentioned composition, forming a middle layer portion (1a) of the above mentioned composition on the lower layer portion (1b) according to a dry process or wet process, stacking on the middle layer portion (1a) a wet inorganic mat which constitutes an upper layer portion (1b) of the above mentioned composition, then pressing the stacked structure to form an integral laminate and heating to dry the same.

Classifications:

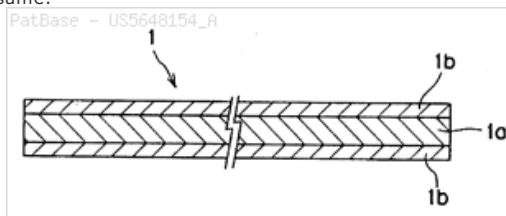
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International (IPC 1-7): B28B1/42 B28B1/52 B28B11/02 B32B13/02 B32B13/14 B32B17/00 B32B17/02 B32B19/00 B32B19/04 B32B19/06 B32B31/20 B32B5/00 B32B5/18 B32B5/22 B32B5/26 B32B5/30 D21H13/40 D21H17/28 D21J1/18 E04B13/00 E04C2/24 E04F13/00 E04F13/04 E04F13/14 E04F13/16

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European: B28B1/52C B28B1/52F B28B19/00B B28B19/00E B28B5/02C2 B32B5/18 C04B38/10P E04F13/16

US: 264/113 264/120 264/122 264/333 428/218 428/313.7 428/313.9 428/317.9 428/319.1



Family:

Publication number	Publication date	Application number	Application date
AU199223902 A1	19930302	AU19920023902	19920731
AU657162 B2	19950302	AU19920023902	19920731
CA2114620 AA	19940131	CA19922114620	19920731
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WO9303238 A1	19930218	WO1992JP00970	19920731

Priority:

JP19910194182 19910802 JP19910194183 19910802 JP19910194184 19910802
JP19910207895 19910820 JP19910225755 19910905 JP19910338368 19911220
WO1992JP00970 19920731

Probable Assignee: DAIKEN TRADE AND IND CO LTD

Assignee(s): (std): DAIKEN TRADE AND IND ; DAIKENG TRADE AND IND ; DAIKENG KOGYO KK ; DAIKEN CORP

Assignee(s): DAIKEN CORP TOYAMA ; DAIKEN KOGYO KK ; DAIKEN TRADE AND IND CO LTD ; DAIKEN TRADE AND IND CO ; KOH AKIO ; FUJIWARA HISASHI ; SHUTOH KEIJI ; MASAMOTO SHIGEZOH ; KUROSAKI KIYOSHI

Inventor(s): (std): FUJIWARA HISASHI ; KO AKIO ; KOH AKIO ; KUROSAKI KIYOSHI ; SHUDO KEIJI ; SHUTOH KEIJI ; SYUDOO KEIJI ; MASAMOTO SHIGEZOH ; AKIO KOH ; SHUTOH KEIJI HIRAFUKU ; MASAMOTO SHIGEZOH CHIKKOH ; KUROSAKI KIYOSHI TOYOTA ; KOH AKIO KARAKAWAICHIBA ; FUJIWARA HISASHI NANKI ; MASAMOTO SHIGEZO ; MASAMOTO SHIGEZOH

Inventor(s): SHIGEZOH MASAMOTO ; KUROSAKI KYOSHI ; HISASHI FUJIWARA ; KEIJI SHUTOH ; KIYOSHI KUROSAKI

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; KIRBY EADES GALE BAKER

Designated states: AT AU BE CA CH DE DK ES FR GB GR IT KR LU MC NL SE US

8) Family number: 32176286 (US2005181693A)

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Title: COATED MAT PRODUCTS, LAMINATES AND METHOD

Abstract: Coated fibrous mats having properties particularly suited for a facer on gypsum wallboard, foam and other substrates and in laminates of various types, and the method of making the coated mat is disclosed. The mat contains a major portion of non-cellulosic fibers and a minor portion of cured resinous binder. The exposed surface coating has a smoothness of no more than about 15 microns and is comprised of one or more of a clay, a filler and a polymeric binder. The method comprises at least partially drying the coated mat while the exposed surface of the coating is in contact with a smooth surface.

Classifications:

International (ipc 8-9): B32B15/08 B32B17/02 B32B17/10 B32B27/20 B32B3/30 B32B5/02 D06N3/00 (Advanced/Invention);

B32B17/02 B32B27/20 B32B5/02 D06N3/00 (Core/Invention)

International (ipc 1-7): B32B17/02 B32B27/14 B32B3/00 B32B5/02 D04H1/00

CPC: D06N3/0022 D06N3/0063 Y10T428/2481 Y10T442/2926

Y10T442/2992 Y10T442/608 Y10T442/659 Y10T442/697 Y10T442/698

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European: B32B17/02 B32B27/20 B32B5/02 D06N3/00B8E D06N3/00E6

US: 428/196 428/196S 442/172 442/172P 442/180 442/180S 442/334

442/334S 442/381 442/381S 442/415 442/415S 442/416 442/416S

PatBase - US2005181693_AA

Patent Application Publication Aug. 18, 2005 Sheet 1 of 4 US 2005/0181693 A1

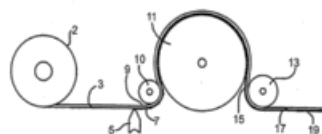


FIG. 1

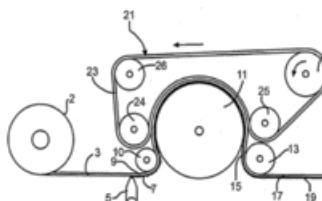


FIG. 2

Family:

Publication number	Publication date	Application number	Application date
US2005181693 AA	20050818	US20040780069	20040217
US7932193 BB	20110426	US20040780069	20040217

Priority:

US20040780069 20040217

Probable Assignee: MANVILLE JOHNS

Assignee(s): (std): JOHNS MANVILLE

Assignee(s): KAJANDER RICHARD E ; MANVILLE JOHNS

Inventor(s): (std): KAJANDER RICHARD E ; KAJANDER RICHARD EMIL

Inventor(s): KAJANDER RICHARD

Agent(s): JOHNS MANVILLE, LEGAL DEPARTMENT; JOHNS MANVILLE LEGAL DEPARTMENT; ROBERT D

9) Family number: 34851293 (US2010009168A)

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Title: COATED PAPER OR BOARD PRODUCT AND PROCESS FOR THE PREPARATION THEREOF

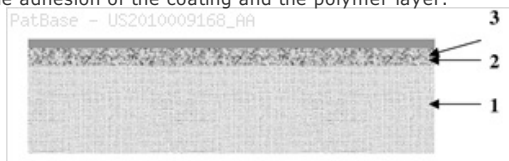
Abstract: A coated paper or board product and a method of manufacturing the same. The product comprises a base layer made of paper or board, with at least one coating layer containing at least one polysaccharide-based pigment, and at least one polymer layer being spread on top of it. The invention can considerably improve the adhesion of the coating and the polymer layer.

Classifications:

International (IPC 8-9): B05D1/36 B05D3/06 B05D3/12 B32B21/06 B32B27/00 B32B27/10 B32B29/04 B32B5/16 B65B27/10 D21H19/54 D21H19/82 D21H27/36 (Advanced/Invention); B05D1/36 B05D3/06 B05D3/12 B32B21/00 B32B27/00 B32B27/10 B32B29/00 B32B5/16 B65B27/00 D21H19/00 D21H27/30 (Core/Invention) **CPC:** B32B27/10 B32B29/04 D21H19/54 D21H19/82 D21H27/36 Y10T428/25 Y10T428/253 Y10T428/277 D21H19/826 D21H19/22 D21H19/42 D21H21/52 D21H23/20 D21H23/46 D21H23/72 D21H25/06 D21H25/14 D21H27/10 Y10T428/31902 Y10T428/31975

European: D21H19/82F N21H19/22 N21H19/42 N21H21/52 N21H23/20 N21H23/46 N21H23/72 N21H25/06 N21H25/14 N21H27/10

US: 427/322 427/322S 427/411 427/411S 427/569 427/569S 428/323 428/323S 428/326 428/326P 428/342 428/342S 428/513 428/513S 428/533 428/533S

**Family:**

Publication number	Publication date	Application number	Application date
EP2069576 A1	20090617	EP20070823141	20070924
EP2069576 A4	20120905	EP20070823141	20070924
FI123420 B	20130430	FI20060005587	20060925
FI20065587 A	20080326	FI20060005587	20060925
FI20065587 A0	20060925	FI20060005587	20060925
US2010009168 AA	20100114	US20070442839	20070924
WO08037844 A1	20080403	WO2007FI50504	20070924

Priority:

FI20060005587 20060925 WO2007FI50504 20070924

Probable Assignee: VALTION TEKNIILLINEN TUTKIMUSKESKUS

Assignee(s): (std): MIKKONEN HANNU ; PELTONEN SOILI ; QVINTUS LEINO PIA ; RAUKOLA JAAKKO ; VALTION TEKNIILLINEN ; VUORIMIEHENTIE 3 ; TEKNOLOGIAN TUTKIMUSKESKUS VTT

Assignee(s): VALTION TEKNIILLINEN TUTKIMUSKESKUS

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Agent(s): ARVELA SAKARI MIKAEL; SUGHRUE MION PLLC; SEPPO LAINE OY

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 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 SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

10) Family number: 1314335 (US4175105A)

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Title: POST-PRESS MOLDING OF MAN-MADE BOARDS TO PRODUCE CONTOURED FURNITURE PARTS

Abstract: A method of molding a cellulosic fiber containing board at a temperature of at least 525 DEG F. to provide a relatively high density skin on at least one surface. A fibrous composition, including cellulosic fibers, is consolidated to form a blank having a density of less than 35 pounds/cubic foot. The blank is then cut to a shape larger in at least two of its three dimensions than corresponding dimensions of a mold cavity when said mold is in a closed position. Urea is then included in at least a surface layer of fibers of the blank in an amount of at least 5 percent based on the dry weight of the fibers contacted with urea, and thereafter the cut blank is molded to form a contoured product having a skin on at least one surface thereof, the skin defined by a thickness of material on said surface of said product having a density greater than the material on which the skin is formed.

Classifications:

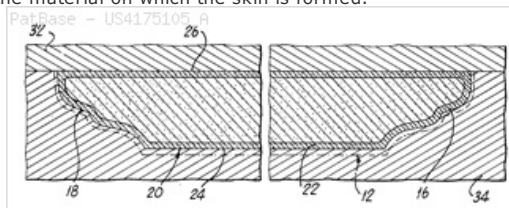
International (IPC 8-9): B27N3/04 B27N3/06 B27N7/00 B32B5/26 C08L97/02 D06N7/06 (Advanced/Invention); B27N3/00 B27N3/04 B27N7/00 B32B5/22 C08L97/00 D06N7/00 (Core/Invention)

International (IPC 1-7): B29D3/02 B29J5/00 B29J5/04 B32B21/00 B32B21/02 B32B23/04 B32B3/30 B32B31/20 B32B5/14 B32B7/02 D06N7/00 D06N7/06 D21J1/00 D21J1/04 D21J1/08

CPC: Y10T428/24603 Y10T428/24992 Y10T428/253 B32B5/26 Y10T428/24521 Y10T428/24554 B27N7/00 B29K2311/14 Y10T428/31949 Y10T428/31967 Y10T428/31667 Y10T428/31971 Y10T428/31982 Y10T428/31942 B32B5/24 B32B29/02 B32B37/10 B32B2260/00 B32B2262/10 B32B2309/022 C08L97/02

European: B27N7/00 B32B5/26 C08L97/02 L29K311/14

US: 156/285 156/307.3 156/331.1 156/331.3 156/331.7 156/62.2 156/62.8 162/101 264/112 264/113 264/118 264/119 264/120 264/128 264/134 427/337 427/370 428/161 428/165 428/171 428/218 428/326 428/451 428/452 428/524 428/526 428/531 428/532 428/535 428/542.8

**Family:**

Publication number	Publication date	Application number	Application date
AU197729818 A1	19790426	AU19770029818	19771018
AU509000 B2	19800417	AU19770029818	19771018
BE860474 A	19780301	BE19770182334	19771104
BR7707214 A	19780808	BR19770007214	19771027
CA1106568 A1	19810811	CA19770288069	19771004
DE2748578 A1	19780518	DE19772748578	19771028
DK490777 A	19780506	DK19770004907	19771104
ES463884 A1	19790601	ES19770463884	19771104
FI773228 A	19780506	FI19770003228	19771028

FR2369926 A1	19780602	FR19770032523	19771027
GB1534670 A	19781206	GB19770045229	19771031
JP53058560 A2	19780526	JP19770130349	19771101
NL7712205 A	19780509	NL19770012205	19771104
NO773753 A	19780508	NO19770003753	19771102
NZ185399 A	19801024	NZ19770185399	19771010
SE7712392 A	19780505	SE19770012392D	19771102
US4175105 A	19791120	US19770819876	19770728
US4175148 A	19791120	US19780881184	19780227
US4175149 A	19791120	US19780881551	19780227
US4175150 A	19791120	US19760739184	19761105
US4268565 A	19810519	US19790036759	19790507
US4275027 A	19810623	US19790095629	19791119
US4283450 A	19810811	US19780095628	19781119
US4305989 A	19811215	US19790095630	19791119
ZA7705917 A	19780530	ZA19770005917	19771004

Priority:

US19760739184 19761105	US19770819876 19770728	CA19770288069 19771004
US19780881551 19780227	US19780881184 19780227	US19780095628 19781119
US19790036759 19790507	US19790095629 19791119	US19790095630 19791119

Probable Assignee: MASONITE CORP

Assignee(s): (std): MASONITE CORP

Assignee(s): MASONITE TE CHICAGO ILLINOIS VER ST V AM CORP ; MASONITE TE CHICAGO ILLINOIS VER ST V CORP ; CLARKE JOHN T ; HOFFMAN MICHAEL R ; LUCK ALLAN J

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Inventor(s): JOHN T CLARKE ; ALLAN J LUCK ; M R HOFFMAN ; J T CLARKE ; A J LUCK ; MR HOFFMAN ; R HOFFMAN MICHAEL ; T CLARKE JOHN ; MICHAEL R HOFFMAN ; J LUCK ALLAN ; JT CLARKE ; AJ LUCK

Agent(s): SMART AND BIGGAR

11) Family number: 47452339 (WO10122208A1)

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Title: A ROLL FOR A FIBRE WEB MACHINE

Abstract: The present invention relates to a roll for a paper, board, finishing or tissue machine, said roll comprising a roll body and a cover arranged on said roll body, said cover comprising a bottom layer comprising matrix material and fibres and a functional layer comprising matrix material and fibres. In a typical roll according to the present invention, the glass transition temperature of the matrix material of the bottom layer is at least 20 degrees C lower than the glass transition temperature of the matrix material of the functional layer.

Classifications:

International (IPC 8-9): B05D7/00 D21F3/08 D21G1/02

F16C13/00 (Advanced/Invention)

CPC: D21G1/0233 F16C13/00

European: D21G1/02D F16C13/00

PatBase - WO10122208_A1

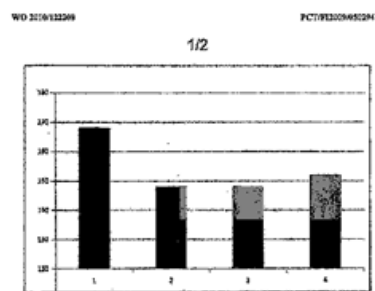


Fig 1

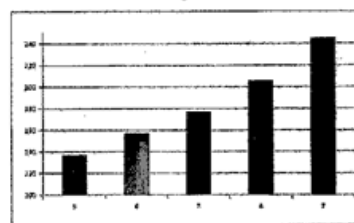


Fig 2

Family:

Publication number	Publication date	Application number	Application date
CN102414459 A	20120411	CN200980158808	20090421
CN102414459 B	20150715	CN200980158808	20090421
EP2422098 A1	20120229	EP20090843590	20090421

EP2422098 A4	20170125	EP20090843590	20090421
EP2422098 B1	20180207	EP20090843590	20090421
WO10122208 A1	20101028	WO2009FI50294	20090421

Priority:

WO2009FI50294 20090421

Probable Assignee: VALMET TECHNOLOGIES INC

Assignee(s): (std): AJOVIITA TOMMI ; METSO PAPER INC ; VALMET TECH INC ; VALMET TECHNOLOGIES INC

Inventor(s): (std): TOMMI AJOVIITA ; AJOVIITA TOMMI

Agent(s): TBK; TURUN PATENTTITOIMISTO OY

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 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

12) Family number: 47693364 (US7842162B)

PatBase

Title: LAYER-BY-LAYER NANOCOATING FOR PAPER FABRICATION

Abstract: A method is provided for manufacturing paper by means of layer-by-layer nanocoating techniques. The method comprises the sequential processing of an aqueous pulp of lignocellulose fibers which is first subjected to nanocoating by alternatively adsorbing onto the fibers multiple consecutively-applied layers of oppositely-charged nanoparticles, polymers and/or proteins thereby making a modified aqueous pulp of multi-layer nanocoated lignocellulose fibers, then draining the water out of the modified pulp to form sheets of multi-layer nanocoated fibers, and drying the formed sheets of multi-layer nanocoated fibers. The resulting dried sheets are then processed to make a finished paper that has superior physical strength and improved surface properties. In a preferred embodiment the starting aqueous pulp of lignocellulose fibers is divided into separate portions which are separately nanocoated with opposite charges, and then blended to form a complex aggregate pulp of nanocoated fibers before draining and drying it. The method is particularly applicable to the treatment of broken (mill broke) recycled fibers in order to facilitate their usage in paper production.

Classifications:

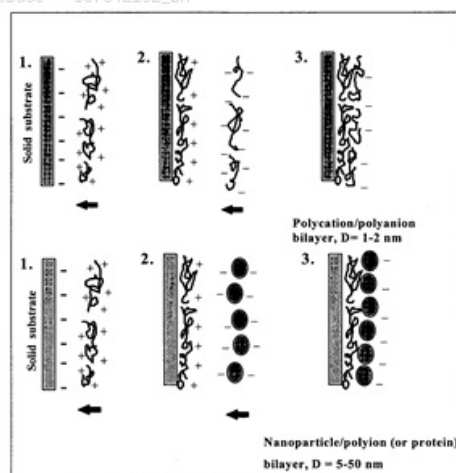
International (IPC 8-9): D21F11/00 (Advanced/Invention)

CPC: D21H17/20 D21H17/22 D21H17/33 D21H17/67 D21H19/38 D21H21/20

European: D21H17/20 D21H17/22 D21H17/33 N21H17/67 N21H19/38 N21H21/20

US: 162/158 162/164.1 162/164.6 162/166 162/168.3 162/174 162/181.1 162/181.4 162/181.8 162/182

PatBase - US7842162_BA



Scheme of the layer-by-layer assembly by alternate adsorption of polycations and polyanions or nanoparticles.

Family:

Publication number	Publication date	Application number	Application date
US7842162 BA	20101130	US20060372945	20060311

Priority:

US20050661640P 20050314 US20060756671P 20060106 US20060372945 20060311

Probable Assignee: LOUISIANA TECH UNIV FOUNDATION INC

Assignee(s): (std): UNIV LOUISIANA TECH FOUNDATION

Assignee(s): LOUISIANA TECH UNIV FOUNDATION INC ; LOUISIANA TECH UNIVERSITY FOUNDATION INC

Inventor(s): (std): GROZDITS GEORGE ; LVOV YURI M

Agent(s): JONES WALKER WAECHTER POITEVENT CARRERE AND DENEGRE LLP

13) Family number: 44112385 (US2009301382A)

PatBase

Title: MONITORING SYSTEM BASED ON ETCHING OF METALS

Abstract: Compositions, devices and processes related to etching of a very thin layer or fine particles of a metal are disclosed for monitoring a variety of parameters, such as time, temperature, time-temperature, thawing, freezing, microwave, humidity, ionizing radiation, sterilization and chemicals. These devices have capabilities of producing a long and sharp induction period of an irreversible visual change. The devices are composed of an indicator comprising a very thin layer of a metal (e.g., polyester film having an extremely thin, e.g., about one hundred Angstroms layer of aluminum) and an activator, e.g., a reactant, such as

water, water vapor, an acid, a base, oxidizing agent or their precursors, which is capable of reacting with the said indicator. The indicator retains its opacity and metallic luster, e.g., silvery white, mirror like finish of aluminum layer for a long time. The activator destroys the indicator layer including the naturally formed oxide layer. The indicator layer does not have a matrix/binder. As the device becomes transparent from being highly opaque, any color, message or image printed under it become visible at a pre-determined time, thus making the device self reading. A sealing tape or large label made from an activator and an indicator can be used for sealing boxes and monitoring self-life of perishables inside it. Ink formulations composed of a metal powder and a proper activator can be used for monitoring several sterilization processes, such as sterilization with steam. When water is used as an activator, a thin layer of metals, such as that of aluminum can be used as steam sterilization or humidity indicator. The process can also be used for making patterns, printing plates, electronic circuits and RFIDs (radio frequency identification devices).

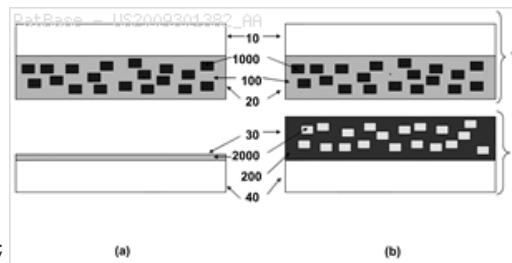
Classifications:

International (IPC 8-9): A61L2/06 A61L2/07 A61L2/14 A61L2/20 A61L2/28 B05D3/00 B32B15/00 B65B51/06 B65C9/26 B65D81/24 B82B B82B1/00 B82Y15/00 B82Y30/00 B82Y35/00 B82Y40/00 C12Q1/02 C12Q1/70 C23C16/52 G01D G01D11/00 G01D21/00 G01D3/10 G01D5/00 G01D5/16 G01D5/32 G01D7/00 G01J4/00 G01K11/12 G01K3/00 G01N19/06 G01N19/10 G01N21/75 G01N21/77 G01N21/78 G01N27/04 G01N27/22 G01N31/00 G01N33/00 G01N33/02 G01N33/15 G01N37/00 G01R29/00 G01T1/00 G01T1/02 G01T1/04 G01T1/10 G01T1/24 G01T5/04 G01T5/06 G01V15/00 G04F1/00 G04F13/02 G09F3/00 G09F3/02 (Advanced/Invention); B05D3/00 G01D11/00 G01D21/00 G01N33/02 G01N33/15 (Core/Invention); B82B G01D (Subclass/Invention)

CPC: G01D7/00 G01D7/005 G01K3/04 G01D3/10 B82Y30/00 B82Y15/00 G01N31/224 G01N31/229

European: G01D3/10 G01D7/00C

US: 116/201 116/206 116/206S 250/336.1 250/336.100S 252/408.1 252/408.100S 356/369 356/369S 374/104 374/104S 374/E3.001 374/E30.01S 422/424 422/82.02 427/8 427/8S 435/29 435/29S 435/5 435/5P 436/1 436/1S 436/2 977/700 977/700S 977/773 977/773S 977/774 977/774S 977/902 977/902S 977/953 977/953S



Family:

Publication number	Publication date	Application number	Application date
AU2009256212 AA	20091210	AU20090256212	20090604
AU2009256212 BB	20151210	AU20090256212	20090604
AU2016202637 AA	20160609	AU20160202637	20160426
AU2017265092 AA	20171214	AU20170265092	20171123
BRPI0913415 A2	20170815	BR2009PI13415	20090604
CA2726993 AA	20101203	CA20092726993	20090604
CA2773073 AA	20110317	CA20102773073	20100910
CN102077060 A	20110525	CN200980125930	20090604
CN102077060 B	20141029	CN200980125930	20090604
EP2288879 A1	20110302	EP20090759402	20090604
EP2288879 A4	20150819	EP20090759402	20090604
EP2288879 B1	20180124	EP20090759402	20090604
EP2475612 A1	20120718	EP20100816152	20100910
EP2475612 A4	20170913	EP20100816152	20100910
EP3293493 A1	20180314	EP20170183456	20090604
IL209734 A0	20110228	IL20100209734	20101202
IL209734 A1	20160531	IL20090209734	20090604
IL218536 A0	20120731	IL20100218536	20100910
IL218536 A1	20161130	IL20100218536	20100910
IN00518MN2012 A	20130111	IN2012MN00518	20120301
IN02749MN2010 A	20120831	IN2010MN02749	20101222
JP2011530085 T2	20111215	JP20110512639T	20090604
JP2013504442 T2	20130207	JP20120528925T	20100910
JP2016028238 A2	20160225	JP20150147151	20150724
JP2017205868 A2	20171124	JP20170108538	20170531
JP5833920 B2	20151216	JP20110512639T	20090604
JP6076738 B2	20170208	JP20120528925T	20100910
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KR20120010557 A	20120203	KR20107029897	20090604
RU2010154102 A	20120720	RU20100154102	20090604
RU2507516 C2	20140220	RU20100154102	20090604
US2009301382 AA	20091210	US20090478232	20090604
US2011003279 AA	20110106	US20100879688	20100910
US2016349088 AA	20161201	US20150753303	20150629
US8343437 BB	20130101	US20090478232	20090604
WO09149243 A1	20091210	WO2009US46228	20090604
WO11031959 A1	20110317	WO2010US48417	20100910
ZA201009026 A	20111228	ZA20100009026	20101214
ZA201009026 A	20120125	ZA20100009026	20101214

Priority:

US20080081763P 20080604	US20080130928P 20080604	US20080095058P 20080623
US20080132799P 20080623	US20080081763P 20080718	US20080122547P 20080718
US20080095058P 20080908	US20080130928P 20080908	US20080122547P 20081215
US20080132799P 20081215	US20090162539P 20090323	US20090162539P 20090423
US20090215982P 20090512	AU20090256212 20090604	EP20090759402 20090604
WO2009US46228 20090604	US20090478232 20090604	US20090276349P 20090911
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AU20160202637 20160426	JP20170108538 20170531	AU20170265092 20171123

Probable Assignee: JP LABORATORIES INC

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Inventor(s): (std): PATEL GORDHANBHAI ; PATEL GORDHAN ; GORDHANBHAI PATEL ; PEHJTEL G ; PATEL G ; PATEL GORDHANBHAI N ; PATEL GORDHANBHAI NATHALAL

Inventor(s): G PATEL

Agent(s): SPRUSON AND FERGUSON; NORTON ROSE CANADA SENCRL SRL LLP; LUDERSCHMIDT SCHUELER AND PARTNER; DOMPATENT VON KREISLER SELTING WERNER PARTNERSCHAFT VON PATENT U RECHTSANWAELTEN MBB; MAI DOERR BESIER; SANFORD TCOLB AND CO; BARBARA V MAURER; JOSEPH T; BARBARA V; MAURER BARBARA

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

14) Family number: 32510426 (US2004127614A)

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Title: POLYOLEFIN ADHESIVE COMPOSITIONS AND ARTICLES MADE THEREFROM

Abstract: Embodiments of the present invention relate to article comprising a polymer comprising one or more C3 to C40 olefins, optionally one or more diolefins, and less than 5 mole percent of ethylene having a Dot T-Peel of 1 Newton or more, a branching index (g') of 0.95 or less measured at the Mz of the polymer; and an Mw of 100,000 or less. This invention further relates to a process to produce an olefin polymer comprising: 1) selecting a first catalyst component capable of producing a polymer having an Mw of 100,000 or less and a crystallinity of 20 percent or less; 2) selecting a second catalyst component capable of producing polymer having an Mw of 100,000 or less and a crystallinity of 40 percent or more; 3) contacting the catalyst components in the presence of one or more activators with one or more C3 to C40 olefins, in a reaction zone.

Classifications:

International (IPC 8-9): B32B27/32 C08F10/00 C08F10/02 C08F10/04 C08F10/06 C08F10/14 C08F110/06 C08F110/14 C08F2/00 C08F2/38 C08F210/00 C08F210/04 C08F210/06 C08F210/14 C08F210/16 C08F210/18 C08F255/00 C08F255/02 C08F297/08 C08F4/44 C08F4/6392 C08F4/64 C08F4/642 C08F4/643 C08F4/646 C08F4/6592 C08F8/00 C08F8/46 C08G63/91 C08J3/00 C08K5/00 C08K5/01 C08K5/17 C08L101/00 C08L23/00 C08L23/04 C08L23/06 C08L23/10 C08L23/12 C08L23/14 C08L23/16 C08L23/18 C08L23/20 C08L23/26 C08L25/06 C08L27/06 C08L27/08 C08L45/00 C08L51/00 C08L67/06 C08L73/02 C08L77/00 C08L83/00 C08L91/00 C08L91/06 C08L91/08 C08L93/04 C09D123/14 C09J11/00 C09J11/06 C09J11/08 C09J123/00 C09J123/02 C09J123/04 C09J123/10 C09J123/12 C09J123/14 C09J123/16 C09J123/20 C09J123/24 C09J123/26 C09J133/00 C09J145/00 C09J147/00 C09J151/06 C09J157/02 C09J191/06 C09J193/04 C09J201/00 C09J5/00 C09J7/02 C09J7/04 D01F6/30 D01F6/46 (Advanced/Invention);

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C08F110/00 C08F210/00 (Core/Non-invention)

International (IPC 1-7): C08F10/06 C08F2/00 C08F2/38 C08F210/04 C08F210/06 C08F297/08 C08F4/44 C08F4/64 C08F4/642 C08F4/643 C08G63/91 C08J3/00 C08K5/01 C08L23/10 C08L51/00 C09J123/10 C09J123/12

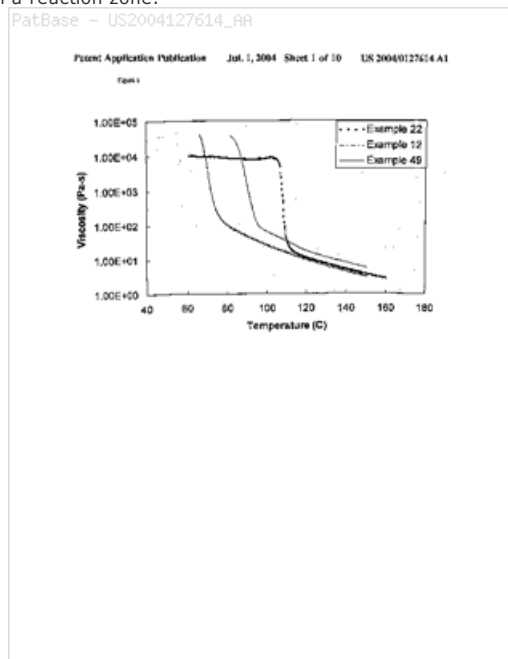
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European: C08F10/00 C08F10/04 C08F10/06 C08F210/06 C08F255/00 C08F255/02 C08F297/08 C08F8/00 C08L23/10 C08L23/12 C08L23/14 C08L23/14A C08L23/26 C08L51/00 C08L51/06 C09D123/10 C09D123/14A C09J123/10 C09J123/12 C09J123/14A C09J151/06 C09J153/02 C09J155/02 D21H17/35 M08F110/06 M08F210/06 M08F4/6592 M08F4/6592B4 M08F4/659D M08F4/659K M08L205/02 M08L205/03 M08L207/12 M08L207/14 M08L23/10 M08L23/12 M08L23/14 M08L23/14A M08L314/06 M08L51/00B M08L51/06 M08L57/02 M08L91/06 N21H21/18

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Family:

Publication number	Publication date	Application number	Application date
AT519795 E	20110815	AT20050777682T	20050413
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AU2003304716 AA	20051125	AU20030304716	20031015
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CA2499951 AA	20050322	CA20032499951	20031015
CA2499951 C	20130528	CA20032499951	20031015
CN100588663 C	20100210	CN200380101509	20031015
CN101018815 A	20070815	CN200580019491	20050413
CN101018815 B	20161130	CN200580019491	20050413
CN101248135 A	20080820	CN200680030816	20060621
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CN101724110 A	20100609	CN200910253448	20031015
CN101724110 B	20130327	CN200910253448	20031015
CN101838362 A	20100922	CN201010143429	20031015
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CN1705688 A	20051207	CN200380101509	20031015
CN1820034 A	20060816	CN200380106170	20031015
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CN1860197 A	20061108	CN200580000382	20050413
CN1860197 B	20101013	CN200580000382	20050413
CN1965004 A	20070516	CN200580018209	20050413
CN1965004 B	20110622	CN200580018209	20050413
DE102005050378 A1	20060727	DE200510050378	20051020
DE112005000058 T5	20080703	DE200511000058T	20050413
DE602005029471 D1	20111020	DE200560029471T	20050413
DE602005029891 D1	20111110	DE200560029891T	20050413
DE60341977 D1	20121025	DE20036041977	20031015
DE60344592 D1	20130919	DE20036044592	20031015
DE60346553 D1	20140904	DE20036046553	20031015
EP1558655 A2	20050803	EP20030811599	20031015
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EP1620479 A1	20060201	EP20030818982	20031015
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EP1735396 A1	20061227	EP20050756018	20050413
EP1753796 A1	20070221	EP20050777682	20050413
EP1753796 B1	20110810	EP20050777682	20050413
EP1756177 A1	20070228	EP20050736591	20050413
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EP1896542 A1	20080312	EP20060773673	20060621
EP1896542 B1	20180620	EP20060773673	20060621
EP2261292 A2	20101215	EP20100181853	20031015
EP2261292 A3	20110216	EP20100181853	20031015
EP2261292 B1	20140723	EP20100181853	20031015
ES2394304 T3	20130130	ES20030811599T	20031015
FR2877347 A1	20060505	FR20050010606	20051018
GB200521089 A0	20051123	GB20050021089	20051017
GB2420348 A1	20060524	GB20050021089	20051017
GB2420348 B2	20091118	GB20050021089	20051017
ITMI20051993 A1	20060429	IT2005MI01993	20051020
JP2006193719 A2	20060727	JP20050313984	20051028
JP2006504858 T2	20060209	JP20040570359T	20031015
JP2007532761 T2	20071115	JP20070508536T	20050413
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JP2007533796 T2	20071122	JP20070508535T	20050413
JP2008546890 T2	20081225	JP20080518349T	20060621
JP2013047341 A2	20130307	JP20120193543	20120816
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JP5210629 B2	20130612	JP20070508536T	20050413
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KR101113341 B1	20120927	KR20057006479	20031015
KR101156777 B1	20120618	KR20067023824	20050413
KR20050062617 A	20050623	KR20057006479	20031015
KR20070015579 A	20070205	KR20067023824	20050413
US2004127614 AA	20040701	US20030686951	20031015
US2004138392 AA	20040715	US20030687508	20031015
US2004220320 AA	20041104	US20040825349	20040415
US2004220336 AA	20041104	US20040825635	20040415
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US2004249046 AA	20041209	US20040825348	20040415
US2006020067 AA	20060126	US20050220114	20050906
US2007021566 AA	20070125	US20060472063	20060621
US2007293640 AA	20071220	US20070888876	20070802
US2008081868 AA	20080403	US20060529839	20060929
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US2009149604 AA	20090611	US20090371273	20090213
US2010029829 A9	20100204	US20060529839	20060929
US2010029851 A9	20100204	US20060541185	20060929
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US2010179268 A9	20100715	US20060529839	20060929
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WO05100501 A1	20051027	WO2005US12716	20050413
WO05105868 A1	20051110	WO2005US12714	20050413
WO05105941 A1	20051110	WO2005US12597	20050413
WO05108442 A1	20051117	WO2003US33163	20031015
WO05113622 A1	20051201	WO2005US12721	20050413
WO07002177 A1	20070104	WO2006US24116	20060621
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WO08042038 A1	20080410	WO2007US17179	20070801

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US20020418482P	20021015	US20030460714P	20030404	EP20030811599	20031015
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SIMS CHARLES LEWIS JIANG PEIJUN JOHNSRUD DAVID RAYMOND CANICH JO ANN MARIE ; ABHARI RAMIN
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TECHNOLOGY; EXXONMOBIL CHEMICAL CO LAW TECHNOLOGY; EXXONMOBIL CHEMICAL COMPANY, LAW
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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
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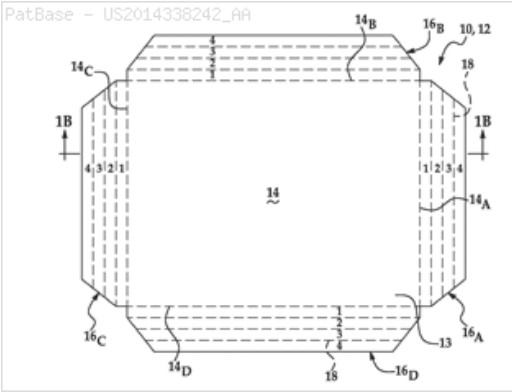
15) Family number: 54554480 (US2014338242A) © PatBase

Title: COMPOSITE BOARDS AND ART FRAMES INCLUDING THE SAME

Abstract: Composite boards are disclosed herein. An example of the composite board includes a first outer layer, a second outer layer, and a middle layer positioned between the first and second outer layers. The first and second outer layers each include chemical pulped cellulose fibers and low moisture absorbing fibers. The middle layer includes the cellulose fibers and a moisture repelling agent. Also disclosed herein are art frames that include the composite boards.

Classifications:

International (IPC 8-9): A47G1/06 B31F1/08 B31F5/00 B32B29/00
B32B29/08 B32B3/28 B32B7/12 B32B7/14 D21H13/12 D21H13/20
D21H13/36 D21H17/34 D21H17/60 D21H21/16 D21H27/30
D21H27/38 (Advanced/Invention)
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B32B2262/0276 B32B2262/0292 B32B2262/065 B32B2262/067
B32B2262/106 B32B2307/73 B32B2451/00 D21H13/12 D21H13/20
D21H13/36 D21H17/34 D21H17/60 D21H21/16 D21H27/30
Y10T428/24694 Y10T428/31507 Y10T428/31591 Y10T428/31663
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Y10T428/31902 Y10T428/31982
US: 1/1 40/774 428/182 428/412 428/425.1 428/447 428/479.6 428/481
428/486 428/496 428/498 428/513 428/535



Family:

Publication number	Publication date	Application number	Application date
DE602012025308 D1	20161222	DE201260025308T	20120210
EP2811867 A1	20141217	EP20120868121	20120210
EP2811867 A4	20150624	EP20120868121	20120210
EP2811867 B1	20161109	EP20120868121	20120210
US2014338242 AA	20141120	US20120370079	20120210
US9265366 BB	20160223	US20120370079	20120210
WO13119254 A1	20130815	WO2012US24696	20120210

Priority:

EP20120868121 20120210 US20120370079 20120210 WO2012US24696 20120210

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WALTER W 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

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SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

16) Family number: 13033500 (US5331087A)

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Title: METHOD FOR REPROCESSING THERMOPLAST-COATED PACKING MATERIALS AND THERMOPLAST MATERIAL FOR FURTHER PROCESSING

Abstract: A method is described for reprocessing substantially used generally bilaterally plastic-coated beverage cartons or cardboard. The beverage cardboard is first comminuted with cutting tools in such a manner that isolated sheet pieces of about 5 cm diameter are obtained which in a subsequent decontaminating wash can be flushed as far as possible from all sides. The rinsing agent is withdrawn from the process and supplied directly to a biological clarifying. The precomminuted and washed cardboard is then divided in a second comminuting step into small sheet pieces of about 8 mm diameter and either simultaneously or thereafter subjected to disintegrating forces, the plastic layer particles being detached from the fibrous material substrate. The suspension thus disintegrated is separated into a fibrous fraction and a thermoplast foil fraction. After further cleaning and sorting steps the thermoplast is dried and regranulated for recycling. The substantially long-fiber fibrous component is beaten and preferably used in the production of corrugated board raw paper. As a special step, a certain amount of finely ground thermoplast material may be fixed to the fibrous material.

Classifications:

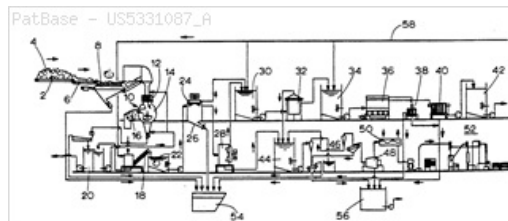
International (IPC 8-9): B03B9/06 B29B17/00 B29B17/02 B65D65/38 C08J11/06 C08L1/02 D21B1/32 (Advanced/Invention); B03B9/00 B29B17/00 B29B17/02 B65D65/38 D21B1/00 (Core/Invention)

International (IPC 1-7): B29B17/00 B29B17/02 B29B17/02 B31D1/00 B31D5/00 B65D65/38 C08F6/00 C08J11/04 C08J11/06 C08L1/02 C08L23/06 C08L23/12 D21B1/04 D21B1/10 D21B1/30 D21B1/32 D21C5/02 D21D5/00 D21D5/02 D21F1/66 D21H23/00

CPC: Y10S264/914 B03B9/061 B29B17/02 B29B17/0412 B29B2017/0224 B29B2017/0231 B29B2017/0251 B29B2017/0289 B29K2023/06 B29K2023/0633 B29K2023/12 B29K2105/065 B29K2705/02 B29K2711/12 B29K2711/14 B29L2009/003 B29L2031/7166 Y02W30/521 Y02W30/523 Y02W30/622 Y02W30/625 Y02W30/62

European: B03B9/06D B29B17/02 L29B17/02Z1B L29B17/02Z1D L29B17/02Z1H L29B17/02Z8A L29B17/04D L29K105/06B L29K23/06 L29K23/06B5 L29K23/12 L29K705/02 L29K711/12 L29K711/14 L29L31/7166 L29L9/00C

US: 162/119 162/29 162/4 264/115 264/37 264/39 264/914 521/47 528/499 528/502 528/502F



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Publication number	Publication date	Application number	Application date
AT156745 E	19970815	AT19910121311T	19911212
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ES2106759 T3	19971116	ES19910121311T	19911212
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NO914957 A	19920630	NO19910004957	19911216
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US5331087 A	19940719	US19910815349	19911227

Priority:

DE19904042222 19901229 CA19912058540 19911224 US19910815349 19911227

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Assignee(s): (std): PWA INDUSTRIEPAPIER GMBH ; SCA PACKAGING INDUSTRIEPAPIER

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Designated states: AT BE CH DE DK ES FR GB IT LI LU NL SE

17) Family number: 32323551 (US2005233657A)

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Title: COATED FACER

Abstract: A gypsum or foam facer is formed by the direct in-line or off-line coating of a pre-impregnated, fibrous network matting with a secondary binder system. The pre-impregnated fibrous network is preferably formed of a randomly oriented wet use chop strand fiber material impregnated with a modified urea-formaldehyde binder system. The secondary binder system preferably consists of low glass transition acrylic or styrene-butadiene-rubber resin filled predominantly with fillers combined with a plate like reinforcement or fibrous reinforcement. In an alternative embodiment, a low basis secondary veil is layered onto the fibrous network matting with or without the secondary binder system to improve softness and decorative appearance of the

formed gypsum board. In another preferred alternative embodiment, a plurality of high aspect ratio particles may be introduced to the binder prior to introduction of an optional secondary binder resin to also improve the softness and decorative appearance of gypsum board.

Classifications:

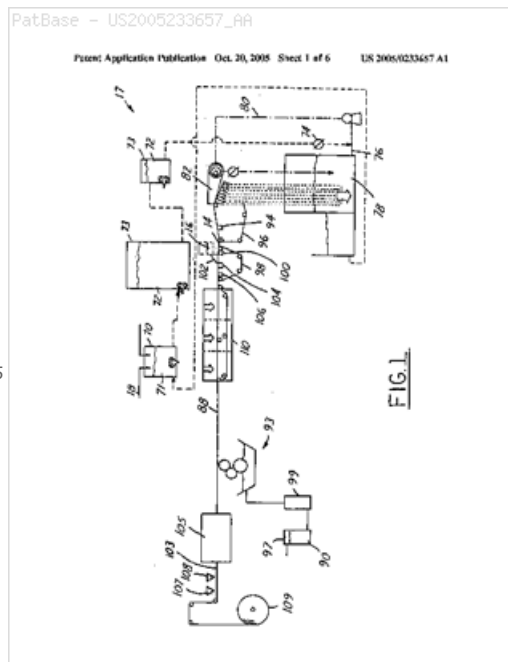
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European: B32B13/14 D06N3/00E6 D06N7/00

US: 427/203 427/203P 427/384 427/384S 427/385.5 427/385.500S 427/407.1 427/412 442/164 442/180 442/2 442/20 442/29 442/32 442/35 442/42 442/43 442/44 442/46



Family:

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EP1735495 A2	20061227	EP20050738100	20050414
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WO05103367 A2	20051103	WO2005US12921	20050414
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Priority:

US20040826637 20040416 WO2005US12921 20050414 US20080193840 20080819

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Assignee(s): OWENS CORNING INTELLECTUAL CAPITAL LLC ; OWENS CORNING ; OWENS CORNING FIBERGLAS TECHNOLOGY INC

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Inventor(s): GROVE DALE ; HARTMAN DAVID

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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 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 SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

18) Family number: 31876552 (US2007134453A)

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Title: CARDBOARD AND A METHOD OF MANUFACTURE THEREOF

Abstract: The invention relates to cardboard used in authenticity products, comprising a fiber matrix having two surfaces, whereby the second surface of the fiber layer has a layer of surface sizing containing a marking agent in a particle form, its particle size being smaller than 50 mum. By incorporating the marking agent into the surface sizing, the particles of the marking agent can be attached to the board, at the same time decreasing their total consumption by 80 to 90 percent compared with a case where they would be added to pulp. By using particles of a size less than 50 mum, a top free from streaks and roughness can be formed, which streaks might otherwise weaken the quality of the product.

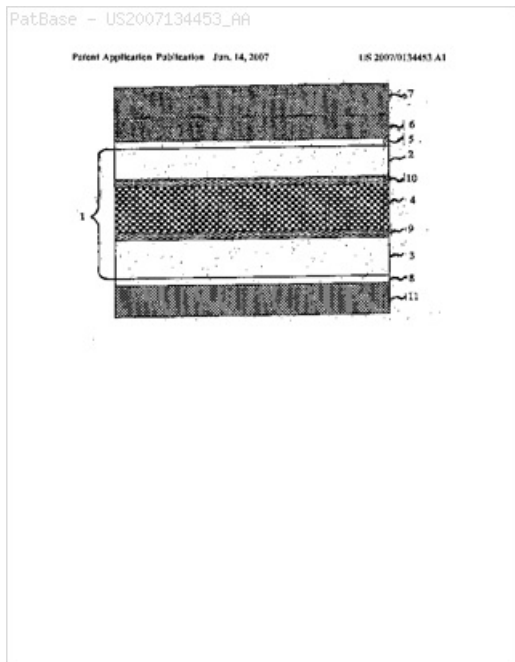
Classifications:

International (IPC 8-9): B32B1/02 B32B23/00 B32B23/04 B32B27/10 B42D15/10 D21H21/00 D21H21/30 D21H21/40 D21H21/44 D21H21/48 D21H27/30 (Advanced/Invention); B32B1/08 (Advanced/Non-invention); B32B23/00 B32B27/10 B42D15/10 D21H21/00 D21H21/14 D21H21/40 D21H27/30 (Core/Invention)

International (IPC 1-7): D21F11/00 D21H21/44 D21H27/30

CPC: Y10T428/1303 Y10T428/1352 Y10T428/1359 D21H21/44

Y10T428/13 Y10T428/139 Y10T428/31978 Y10T428/31982
European: D21H21/44
US: 428/34.1 428/34.2 428/34.200P 428/35.7 428/35.9 428/36.9 428/534
428/534S 428/535 428/535S



Family:

Publication number	Publication date	Application number	Application date
AT498738 E	20110315	AT20040791426T	20041027
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CN1875151 A	20061206	CN200480031693	20041027
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EP1678377 A1	20060712	EP20040791426	20041027
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ES2361020 T3	20110613	ES20040791426T	20041027
FI122297 B	20111115	FI20030001567	20031027
FI20031567 A	20050428	FI20030001567	20031027
FI20031567 A0	20031027	FI20030001567	20031027
IN00912KN2006 A	20070420	IN2006KN00912	20060412
JP2007510068 T2	20070419	JP20060537330T	20041027
PT1678377 T	20110510	PT20040791426T	20041027
RU2006112204 A	20071210	RU20060112204	20041027
RU2336384 C2	20081020	RU20060112204	20041027
US2007134453 AA	20070614	US20040577137	20041027
US8697206 BB	20140415	US20040577137	20041027
VN7310 A1	20081125	VN20060000673	20041027
WO05040496 A1	20050506	WO2004FI00635	20041027

Priority:

FI20030001567 20031027 WO2004FI00635 20041027

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Assignee(s): (std): M REAL OYJ ; MUSTONEN TUOMAS ; REAL OIJ M ; KATAJAMAEKI SEPPO ; REAL OYJ M

Assignee(s): M REAL OIJ

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Agent(s): SUNDMAN PATRIK CHRISTOFFER; SUGIMURA KOSAKU; KUBOVCIK AND KUBOVCIK

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

19) Family number: 44542620 (US5776842A)

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Title: CELLULOSIC WEB WITH A CONTAMINANT BARRIER OR TRAP

Abstract: Nonwoven cellulosic fiber webs such as, for example, paperboards and corrugated paper boards are described containing a barrier layer that can act both as a barrier to the passage of contaminants and as a trap for contaminant materials that can arise in new materials or from the recycle of fiber in the manufacture of paperboard. The effective material which acts as a trap or barrier is a cyclodextrin compound, substantially free of an inclusion complex compound. The cyclodextrin barrier layer

can be corrugated or sheet laminated with or on the cellulosic web. Alternatively, the cyclodextrin material can be included in a coating composition that is coated on the surface or both surfaces of the cellulosic web after web formation. Further, the cyclodextrin material can be included in a thermoplastic film that can be used as one layer in a bilayer or multilayer laminate containing a cellulosic web.

Classifications:

International (IPC 8-9): A23L1/00 A23L3/00 B01D69/14 B01D71/08 B29C47/00 B32B23/08 B32B23/22 B32B27/08 B32B27/10 B32B27/32 B32B29/00 B32B5/02 B32B5/24 B65D1/02 C08B37/00 C08B37/16 C08J5/18 C08L1/00 C08L101/00 C08L23/00 C08L23/08 C08L27/04 C08L33/00 C08L5/16 C08L67/02 C08L97/02 D04H13/00 D21H17/20 D21H17/24 D21H19/24 D21H19/84 D21H27/00 D21H27/10 D21H27/30 (Advanced/Invention); D21H19/20 D21H19/24 D21H19/34 D21H19/84 D21H27/10 (Advanced/Non-invention); D21H19/00 D21H27/10 (Core/Invention)

International (IPC 1-7): B32B23/08 B32B27/00 B32B27/06 B32B27/10 B32B27/32 B32B29/00 B32B5/02 C08B37/16 D04H13/00 D21H17/20 D21H17/24 D21H19/24 D21H19/84 D21H27/00 D21H27/10 D21H27/30

CPC: Y10T442/2057 Y10T442/2066 Y10T442/209 Y10T442/2508 Y10T442/674 B32B27/08 Y02W90/11 B32B5/022 B32B27/304 B32B27/32 B32B2323/04 B32B2327/06 B32B2439/70 B29C48/08 B29C48/10 B01D69/141 B01D71/08 B32B27/10 B65D1/0207 C08B37/0015 C08J5/18 C08L1/00 C08L5/16 C08L23/08 C08L67/02 C08L97/02 C08L101/00 D21H19/20 D21H19/34 D21H27/10

European: B32B27/08 L29C47/00J7 M08L5/16 N21H19/20 N21H19/34

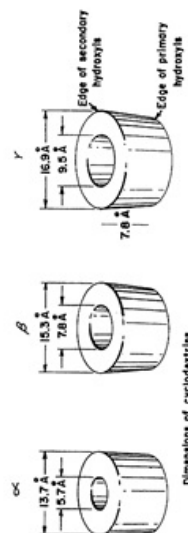
US: 442/121 442/394 442/66 442/67 442/70 524/48

PatBase - US5776842_A

U.S. Patent

Jul. 7, 1998

5,776,842



Family:

Publication number	Publication date	Application number	Application date
AT212396 E	20020215	AT19970906672T	19970220
AT227215 E	20021115	AT19990917438T	19990413
BRPI9707860 A	19990727	BR1997PI07860	19970220
BRPI9912515 A	20010502	BR1999PI12515	19990413
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CA2246762 AA	19980818	CA19972246762	19970220
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CA2336795 AA	20001228	CA19992336795	19990413
CA2336795 C	20030923	CA19992336795	19990413
CN1083512 C	20020424	CN19971093948	19970220
CN1142852 C	20040324	CN1998008239	19990413
CN1218525 A	19990602	CN19971093948	19970220
CN1308577 A	20010815	CN1998008239	19990413
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DE69710053 T2	20020919	DE19976010053T	19970220
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EP1094940 A1	20010502	EP19990917438	19990413
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Designated states: AT BE BR CA CH CN CY DE DK ES FI FR GB GR IE IT JP KR LI LU MC MX NL PT SE SG

PatBase PDF Export - Page: 26 07/03/2019

HK1156652 A3	20120615	HK20110110948	20111013
IL173658 A0	20090211	IL20060173658	20060209
IL173658 A1	20120430	IL20040173658	20040706
IL218128 A0	20120329	IL20040218128	20040706
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IL218129 A1	20130930	IL20040218129	20040706
SG179021 A1	20120427	SG20120015939	20100915
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US2009308277 AA	20091217	US20090543072	20090818
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US8618066 BA	20131231	US20070865514	20071001
WO05007758 A2	20050127	WO2004US21711	20040706
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Priority:

US20020409102P	20020909	US20030485234P	20030703	US20030655345	20030904
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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 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 YU ZA ZM ZW

21) Family number: 33992676 (US2006278132A)

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Title: METHOD OF IMPROVING DISPERSANT EFFICACY IN MAKING GYPSUM PRODUCTS

Abstract: The invention generally provides gypsum-containing slurries including stucco, trimetaphosphate salt, and naphthalenesulfonate dispersant, wherein the trimetaphosphate salt is present in an amount of at least about 0.12 percent by weight based on the weight of stucco. Other slurry additives can include accelerators, binders, starch, and paper fiber, glass fiber, and other known ingredients. The invention also comprises the gypsum-containing products made with such slurries, for example, gypsum wallboard, and a method of making gypsum wallboard.

Classifications:

International (IPC 8-9): B01F17/12 B01F17/14 C04B24/20 B22B1/04 B23B B23B13/00 B23B3/04 B23B37/00 B28B19/00 B28B3/12 B32B B32B1/00 B32B1/04 B32B13/00 B32B13/02 B32B13/04 B32B13/08 B32B13/14 B32B15/00 B32B17/02 B32B21/00 B32B27/02 B32B29/00 B32B3/00 B32B3/26 B32B3/30 B32B37/00 B32B37/02 B32B37/15 B32B37/24 B32B38/10 B32B38/16 B32B5/02 B32B5/24 B32B7/02 B52B13/00 C04B C04B11/00 C04B11/28 C04B11/40 C04B14/28 C04B14/38 C04B14/42 C04B14/46 C04B16/00 C04B16/02 C04B16/08 C04B18/24 C04B20/06 C04B22/06 C04B22/14 C04B22/16 C04B24/00 C04B24/10 C04B24/16 C04B24/22 C04B24/38 C04B24/40 C04B26/28 C04B28/00 C04B28/12 C04B28/14 C04B28/34 C04B28/100 C04B38/02 C04B38/08 C04B38/10 C04B40/00 C04B7/34 C04B9/00 E04B1/94 E04C2/00 E04C2/04 E04C2/26 E04C2/28 E04F13/02 E04F13/14 (Advanced/Invention); B23B13/00 B23B37/00 C04B103/42 C04B11/00 C04B11/00 C04B11/40 C04B14/28 C04B22/14 C04B24/16 C04B24/38 C04B28/14 C04B38/10 (Advanced/Non-invention); B23B13/00 B23B37/00 B28B3/00 B32B13/00 B32B3/00 B32B3/26 B32B37/00 B32B38/10 C04B11/00 C04B14/02 C04B14/38 C04B16/00 C04B20/06 C04B22/00 C04B24/00 C04B28/00 C04B28/14 C04B9/00 (Core/Invention); B23B B32B C04B (Subclass/Invention)

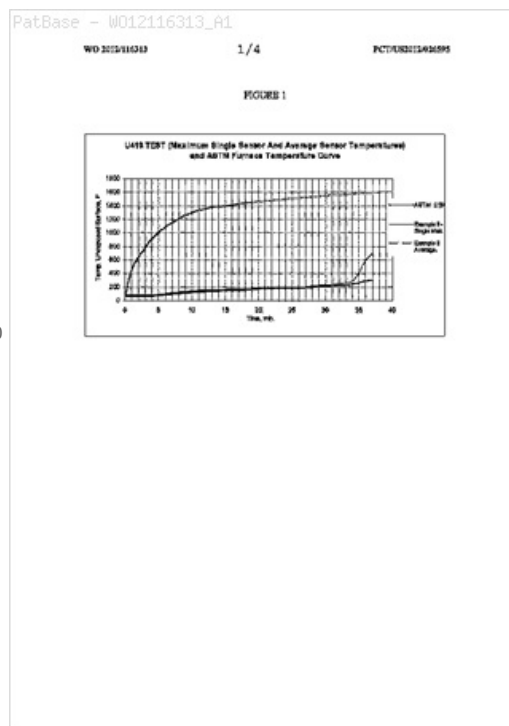
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US: 106/674 106/680 106/680S 106/691 106/711 106/772 106/778 106/779 106/779S 106/780 106/780S 106/781 106/781S 106/783 106/783S 106/785 106/785S 156/250 156/250S 156/39 156/42 156/45 156/45S 252/62 428/156 428/158 428/220 428/220P 428/304.4 428/304.400P 428/312.4 428/312.400P 428/340 428/400 428/426 428/457 428/457S 428/532 428/533 428/535 428/537.1 428/537.100S 428/537.5 428/70 428/703 428/703P 428/703S 428/70P 442/386 52/443 52/553

Family:

Publication number	Publication date	Application number	Application date
AR053623 AA	20070509	AR2006P102432	20060609
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IN01698KN2009 A	20090612	IN2009KN01698	20090506
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TW201609595 A	20160316	TW20150138253	20071101
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TWI457229 B	20141021	TW20070136469	20070928
TWI496757 B	20150821	TW20130103907	20060608
TWI543861 B	20160801	TW20140125236	20070928
TWI579253 B	20170421	TW20070141241	20071101
TWI623419 B	20180511	TW20140114363	20081001
TWI640674 B	20181111	TW20120106421	20120224
TWI652245 B	20190301	TW20150138253	20071101
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UA103989 C2	20131225	UA20090003984	20070829
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US2016258157 AA	20160908	US20160158000	20160518
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US2018002233 AA	20180104	US20170704365	20170914
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US9840066 BB	20171212	US20070906479	20071002
USRE44070 E	20130312	US20120525252	20120615
VN12409 A1	20140325	VN20080000056	20060608
VN17560 A1	20171127	VN20090000843	20070829
WO06135613 A2	20061221	WO2006US22014	20060607
WO06135613 A3	20071025	WO2006US22014	20060607
WO06135707 A2	20061221	WO2006US22371	20060608
WO06135707 A3	20071011	WO2006US22371	20060608
WO08042060 A1	20080410	WO2007US18978	20070829
WO08063295 A2	20080529	WO2007US21573	20071009
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WO09045948 A1	20090409	WO2008US78089	20080929
WO09058558 A1	20090507	WO2008US79903	20081015
WO12116313 A1	20120830	WO2012US26595	20120224
ZA200709397 A	20081029	ZA20070009397	20071031
ZA200709399 A	20081029	ZA20070009399	20071031
ZA200902851 A	20100224	ZA20090002851	20090424

Priority:

US20050688839P	20050609	US20050688839	20050609	US20060445906	20060602
US20060449177	20060607	WO2006US22014	20060607	AU20060258027	20060608
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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 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 PZ 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

22) Family number: 34548679 (US2001017102A)

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Title: METHOD AND APPARATUS FOR CONTROLLED PLACEMENT OF A POLYMER COMPOSITION INTO A WEB

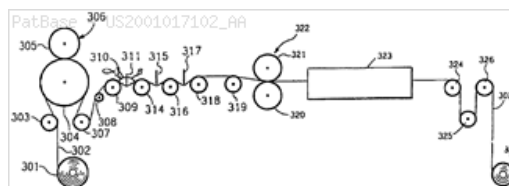
Abstract: The present invention relates to an apparatus for controlling the placement of a curable, shear-thinnable polymer composition into a porous web. The apparatus comprises means for applying tension, means for applying the polymer composition to one surface of the tensioned web, and means for shear thinning the composition and placing it into the web to encapsulate at least some of the structural elements of the web, leaving most of the interstitial spaces open. A preferred apparatus includes one or more process heads that has mounted thereto a rigid knife blade for engagement with the web. The knife blade is movable vertically and rotationally. The process head is also movable horizontally along the path of the web. The invention also relates to an apparatus for selectively placing the polymer composition in a substantially continuous region extending through the web so that the polymer composition fills the interstitial spaces and adheres adjacent structural elements of the web in the region. In the areas of the web above and below the filled region, at least some of the structural elements are encapsulated and most of the interstitial spaces are open.

Classifications:

International (IPC 8-9): A41D31/00 A61F13/00 A61F13/15 A61F13/49 A61F13/53 A61F5/44 A61L15/16 A61L15/22 A61L15/26 A61L15/44 A61L15/52 B05C11/00 B05C11/02 B05C11/04 B05C3/172 B05C3/18 B05D1/26 B05D1/28 B05D3/12 B32B5/18 C07K1/22 C08J9/40 C08J9/42 C08L83/07 C09D183/07 C12Q1/70 C14C11/00 C14C9/00 D04H1/40 D04H1/42 D04H1/58 D04H1/64 D04H13/00 D06B15/08 D06M10/00 D06M10/10 D06M11/00 D06M15/256 D06M15/263 D06M15/356 D06M15/37 D06M15/564 D06M15/643 D06M15/653 D06M15/657 D06M23/00 D06M23/14 D06N3/00 D06N3/04 D06N3/12 D06N7/00 D21H17/59 D21H19/32 D21H23/38 D21H25/06 G01N33/544 G01N33/569 G01N33/573 (Advanced/Invention); A41D31/00 A61F5/44 A61L15/16 B05C11/04 B05D1/26 B05D3/12 B32B5/18 D04H1/40 D06M10/00 D06M11/00 D06N7/00 (Advanced/Non-invention); A41D31/00 A61F13/00 A61F13/15 A61F5/44 A61L15/16 B05C11/02 B05C3/00 B05C3/02 B05D1/26 B05D3/12 B32B5/18 C08J9/00 C09D183/07 C14C11/00 C14C9/00 D04H1/40 D04H1/42 D04H1/58 D04H1/64 D04H13/00 D06B15/00 D06M10/00 D06M11/00 D06M15/21 D06M15/37 D06N3/00 D06N3/12 D06N7/00 D21H17/00 D21H19/00 D21H23/00 D21H25/00 (Core/Invention); B05C11/02 (Core/Non-invention)

International (IPC 1-7): A01N25/34 A41D31/00 A61B19/08 A61F13/00 A61F13/15 A61F13/46 A61F13/49 A61F13/53 A61F5/44 A61L15/16 A61L15/22 A61L15/44 A63B39/00 B05C11/00 B05C11/04 B05C3/132 B05C3/172 B05C3/18 B05C5/00 B05C5/02 B05D1/00 B05D1/26 B05D1/28 B05D3/12 B05D5/00 B05D5/12 B21F9/00 B32B3/06 B32B3/14 B32B5/18 B32B5/32 B32B7/02 B32B9/04 C07K1/22 C07K1/22 C08J7/00 C08L83/07 C09D183/07 C12N15/48 C12N15/86 C12N7/01 C12Q1/68 C12Q1/70 D03D3/00 D04H1/40 D04H1/42 D04H1/64 D04H1/65 D04H1/66 D06C3/00 D06C5/00 D06H1/64 D06H1/64 D06M10/10 D06M11/00 D06M15/256 D06M15/263 D06M15/364 D06M15/364 D06M15/37 D06M15/37 D06M15/564 D06M15/643 D06M15/70 D06M23/00 D06M23/14 D06N3/12 D06N7/00 D21H23/38 G01N33/543 G01N33/544 G01N33/544 G01N33/569 G01N33/573 G01N33/573

CPC: Y10S428/907 Y10S428/92 Y10S977/788 Y10S428/904 Y10S428/913 Y10S2/901 Y10S977/918 A61F2013/00565 A61F13/00038 Y10T428/2495 Y10T428/269 Y10T428/24967 Y10T428/24975 A61F13/00021 A61F13/51403 A61F13/53704 A61F13/53708 A61F2013/00246 A61F2013/00731 A61F2013/00855 A61F2013/53782 Y10T428/24331 Y10T428/249954 Y10T428/249955 Y10T428/249962 Y10T428/249965 Y10T428/249978 Y10T428/249986 Y10T442/3813 Y10T442/659 Y10T442/699



Y10T428/249921 Y10T428/249953 Y10T428/24996 Y10T428/249981 Y10T442/2525 Y10T428/249982 Y10T428/31544
Y10T428/31663 Y10T442/2139 Y10T442/2164 Y10T442/2189 Y10T442/2016 Y10T442/2098 Y10T442/218 Y10T442/223
Y10T442/2352 Y10T442/2369 Y10T428/249964 Y10T442/2238 Y10T442/2762 Y10T442/277 Y10T442/2861 D06N3/0029
D06N3/0025 A61F13/15731 A61F13/15739 A61F13/15756 A61F13/51401 A61F13/51476 A61F13/5148 Y10S977/891
Y10T428/249958 Y10T428/249991 A61F2013/530598 D04H1/425 D04H1/4266 D04H1/435 D04H1/4382 D04H1/655 D04H1/66
D04H1/4258 D04H1/4334 D04H1/587 A61F13/15772 A61F13/15804 A61F13/505 A61F13/514 A61F13/84 A61F2013/0091
A61F2013/00931 A61F2013/8414 B05C11/02 D06N3/0056 D04H1/58 A61F13/51462 A61F13/00008 A61F2013/00119
A61F2013/00744 B05C3/18 C08J9/40 C08J9/42 C08J2205/05 C08J2483/00 C14C11/00 D06B15/08 D06N3/0002 D06N3/047
D06N3/12 D21H17/59 D21H19/32 D21H25/06 D04H1/429 D06N3/128 A61L15/26 A61L15/52 B05C11/04 C08J2427/00
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A61F13/49003 A61F13/00063 A61F2013/00927 A61F2013/00255 A61F2013/0074 A61F2013/00863 A61F13/511 D04H13/002
A61F13/51305 A61F2013/51186 D04H1/643 C12Q1/70 B32B5/022 B32B5/024 B32B5/08 B32B5/245 B32B5/26 B32B5/32
B32B27/08 B32B2255/02 B32B2255/10 B32B2255/26 B32B2262/02 B32B2262/04 B32B2262/06 B32B2262/14 B32B2266/06
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118/688 118/712 128/849 128/888 156/145 156/167 156/229 156/229S 156/272.2 156/278 2/114 2/83 2/901 424/278.1 424/402
424/404 424/443 424/499 427/10 427/171 427/171S 427/173 427/176 427/209 427/245 427/299 427/324 427/356 427/358
427/359 427/365 427/369 427/387 427/389 427/389.9 427/391 427/392 427/393 427/393.3 427/393.4 427/412 427/8 428/138 428/213
428/215 428/216 428/221 428/224 428/225 428/234 428/235 428/240 428/241 428/242 428/244 428/246 428/248 428/252
428/260 428/264 428/272 428/274 428/283 428/286 428/287 428/289 428/290 428/304.4 428/305.5 428/306.6 428/308.4
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435/7.92 436/518 436/535 442/102 442/104 442/123 442/152 442/153 442/164 442/281 442/381 442/417 442/61 442/71 442/76
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604/381 604/385.01 604/385.1 977/788 977/891 977/918

Family:

Publication number	Publication date	Application number	Application date
AT191523 E	20000415	AT19960920271T	19960517
AT195772 E	20000915	AT19960914668T	19960516
AT200114 E	20010415	AT19960915838T	19960516
AT254510 E	20031215	AT19960908808T	19960315
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AU198934406 A1	19891005	AU19890034406	19890313
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AU199657958 A1	19961129	AU19960057958	19960516
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ES2159029 T3	20010916	ES19960915838T	19960516
IL117511 A0	19960723	IL19960117511	19960315

JP10511024 T2	19980229	JP19960535088T	19960315
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KR970002936 B1	19970313	KR19890702108	19890313
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PT826082 T	20010928	PT19960915838T	19960516
US2001017102 AA	20010830	US19970962700	19971130
US2002088396 AA	20020711	US20010982250	20011016
US5004643 A	19910402	US19890319778	19890310
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US5209965 A	19930511	US19910680645	19910402
US5418051 A	19950523	US19930017855	19930216
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US5856245 A	19990105	US19950479919	19950607
US5869172 A	19990209	US19950442983	19950517
US5869172 C1	20140721	US19950442983	19950517
US5869172 C2	20141202	US19950442983	19950517
US5874164 A	19990223	US19950472568	19950607
US5876792 A	19990302	US19950407191	19950317
US5876792 C1	20130513	US19950407191	19950317
US5876792 C2	20141014	US19950407191	19950317
US5912116 A	19990615	US19950486651	19950607
US5935637 A	19990810	US19970963663	19971103
US5954902 A	19990921	US19950476465	19950607
US5954902 C1	20130211	US19950476465	19950607
US5958137 A	19990928	US19970962698	19971103
US6040251 A	20000321	US19950472480	19950607
US6071602 A	20000606	US19980014316	19980127
US6083602 A	20000704	US19950487683	19950607
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WO8908553 A1	19890921	WO1989US01006	19890313
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WO9630432 A3	19970103	WO1996US03501	19960315
WO9636757 A2	19961121	WO1996US07156	19960517
WO9636757 A3	19970403	WO1996US07156	19960517
WO9636758 A2	19961121	WO1996US07000	19960516
WO9636758 A3	19970213	WO1996US07000	19960516
WO9636761 A2	19961121	WO1996US07102	19960516
WO9636761 A3	19970206	WO1996US07102	19960516

Priority:

US19880319776	19880310	US19880319777	19880310	US19880319778	19880310
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Probable Assignee: NEXTEC APPLICATIONS INC

Assignee(s): (std): SCHMERMUND GEORGE ; SILI TEX INC ; FABRIC COATING CORP ; NEXTEC APPLIC INC ; NEXTEC APPLICATIONS INC ; VIAGENE INC ; CALDWELL J MICHAEL ; CALDWELL JAMES MICHAEL ; CHIRON CORP

Assignee(s): ELLMAN PETER ; NEKUSUTETSUKU APURIKEESHONZU INC ; SILICON VALLEY BANK

Inventor(s): (std): CALDWELL J MICHAEL ; CALDWELL JAMES M ; CALDWELL JAMES MICHAEL ; CALDWELL MICHAEL ; ELLMAN PETER ; GRUBER HARRY E ; JOLLY DOUGLAS J ; LAIKIND PAUL K ; RESPESS JAMES G ; SCHMERMUND GEORGE ; JAMES MICHAEL CALDWELL

Inventor(s): PAUL K LAIKIND ; PETER ELLMAN ; KOORUDOERU JEIMUZU MAIKERU ; HARRY E GRUBER ; JAMES G RESPESS ; GEORGE SCHMERMUND ; DOUGLAS J JOLLY

Agent(s): FB RICE; FB RICE PTY LTD; RICHES MCKENZIE AND HERBERT LLP; REINHOLD COHN AND PARTNERS

Designated states: AL AM AT AU AZ BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IS IT JP KE KG KP KR KZ LI LK LR LS LT LU LV MC MD MG MK ML MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SZ TJ TM TR TT UA UG US UZ VN

23) Family number: 43781701 (US2010015420A)

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Title: BIOLAMINATE COMPOSITE ASSEMBLY AND RELATED METHODS

Abstract: Embodiments of the invention relate to a biolaminate composite assembly, including one or more biolaminate layers, a non-plastic rigid substrate and an adhesive layer in contact with the substrate and the one or more biolaminate layers. The one or more biolaminate layers is laminated or formed to the substrate.

Classifications:

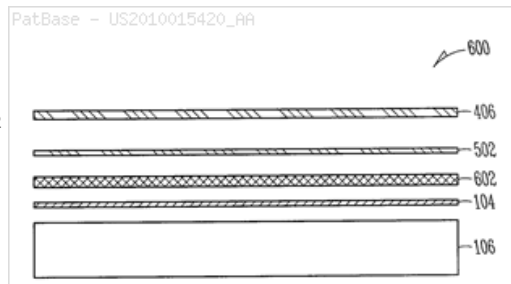
International (IPC 8-9): B32B B32B15/04 B32B17/02 B32B21/04 B32B21/08 B32B23/06 B32B23/14 B32B25/00 B32B27/06 B32B27/08 B32B27/10 B32B27/20 B32B27/30 B32B27/32 B32B27/36 B32B27/40 B32B29/00 B32B3/00 B32B3/10 B32B33/00 B32B37/00 B32B37/14 B32B37/26 B32B5/00 B32B5/12 B32B7/02 B32B7/12 B32B9/00 B32B9/02 B32B9/04 B44C B44C5/04 C08K11/00 C08K3/22 C08K3/26 C08K5/00 C08L101/16 C08L67/04 C09D167/00 C09D191/06 C09J5/02 C09J7/02 D21H D21H27/32 E04F13/07 E04F15/02 E06B5/16 (Advanced/Invention); B82Y30/00 (Advanced/Non-invention); B32B15/04 B32B21/00 B32B27/36 B32B29/00 B32B3/00 B32B37/00 B32B5/12 (Core/Invention); G01N (Subclass/Invention)

International (IPC 1-7): B32B27/36

CPC: B32B2307/7163 A47B96/206 B32B21/08 B44C5/0476 B32B21/02 B32B21/045 B32B21/06 B32B21/10 B32B21/14 B32B2307/402 B32B2307/4023 B32B2307/414 B44C5/04 B32B23/06 B32B23/14 B32B29/005 B32B29/06 B32B2260/028 B32B2260/046 B32B2262/065 B32B2451/00 D21H19/82 D21H27/26 D21H27/30 B32B5/20 B32B27/065 B32B37/14 C08K5/00 B32B2250/02 B32B2250/03 B32B2250/05 B32B2250/40 B32B2367/00 B32B27/08 B32B27/18 B32B2307/306 B32B2307/738 Y10T428/24802 Y10T428/24934 Y10T428/25 Y10T428/28 C09J2205/106 Y10T428/31786 Y10T156/10 Y10T428/24628 Y10T428/24777 Y10T428/24868 Y10T428/24909 Y10T428/24917 Y10T428/24983 Y10T428/31678 Y10T428/31978 Y10T428/31982 Y10T428/31989 Y10T428/31993 Y10T428/31507 Y10T428/31634 Y10T428/3179 Y10T428/31504 Y10T428/31826 Y10T428/31931 Y10T428/31971 B32B13/12 B32B23/08 B32B27/306 B32B27/32 B32B2307/41 B32B2307/514 C08K3/22 C08K3/32 C08K3/346 C08K3/36 C08K2003/2224 C08K2003/2227 C08K2003/322 B32B2255/10 B32B2262/062 B32B2264/062 B32B2419/00 B32B2405/00 B32B27/36 B32B2307/3065 Y10T428/2848 Y02P20/582 B44C5/0469 C08L67/04 B32B9/02 B32B9/045 B32B27/06 B32B27/10 B32B27/20 B32B27/304 B32B27/40 B32B2262/101 B32B2270/00 B32B2307/412 B32B2307/554 B32B2307/558 B32B2307/704 B32B2471/00 B32B2479/00 B32B2607/02 B32B5/022 B32B5/18 B32B19/02 B32B5/024 B32B7/06 B32B27/12 B32B29/002 B32B2260/026 B32B2264/101 B32B2307/536 B32B2264/10 B32B2264/102 B32B2307/546 B32B2307/732 B32B2264/104 B32B2307/75 B32B2266/0264 D21H27/32 B32B7/12 C09J7/255 C08K3/016

European: A47B96/20C2 B32B21/00 B32B21/08 B32B27/06 B32B27/08 B32B27/10 B32B27/18 B32B27/36 B32B29/00B2 B32B29/06 B32B7/12 B32B9/02 B44C5/04R2 D21H19/82 D21H27/32 L32B260/02D L32B260/04C L32B262/06A1 L32B270/00 L32B307/306 L32B307/554 L32B307/716B L32B307/738 L32B451/00 L32B471/00 N21H27/26 N21H27/30

US: 156/277 156/277S 156/306.6 156/322 156/322S 156/60 156/60S 428/174 428/174P 428/192 428/192S 428/195.1 428/195.100P 428/195.100S 428/203 428/203P 428/208 428/208 428/209 428/209S 428/211.1 428/211.100S 428/217 428/217S 428/220 428/220S 428/323 428/323P 428/343 428/354 428/411.1 428/411.100S 428/412 428/412P 428/426 428/426S 428/438 428/446 428/457 428/457S 428/480 428/480S 428/481 428/481S 428/484.1 428/492 428/492S 428/521 428/521S 428/532 428/532S 428/534 428/534S 428/535 428/535S 428/537.1 428/537.100S 428/537.5 428/537.500S 52/232 524/275 524/275S 524/425 524/425S 524/430 524/430S 524/493 524/493S 524/539 524/539S 524/601 524/601S 524/81 977/773 977/773S 977/811 977/811S 977/902 977/902S



Family:

Publication number	Publication date	Application number	Application date
AU2009229406 AA	20091001	AU20090229406	20090324
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AU2011279113 AA	20120119	AU20110279113	20110714
AU2011279127 AA	20120119	AU20110279127	20110714
CA2719409 AA	20091001	CA20092719409	20090324
CN102099186 A	20110615	CN200980119042	20090324
EP2265439 A2	20101229	EP20090723832	20090324
EP2265439 A4	20120516	EP20090723832	20090324
EP2593300 A1	20130522	EP20110735948	20110714
EP2593305 A1	20130522	EP20110738549	20110714
EP2670592 A1	20131211	EP20110743168	20110722
EP2670593 A1	20131211	EP20110749655	20110816
HK1185586 A1	20140221	HK20130113059	20131122
HK1185587 A1	20140221	HK20130113062	20131122
IL208422 A0	20101230	IL20090208422	20090324
IN06779CN2010 A	20110701	IN2010CN06779	20101022
JP2011515605 T2	20110519	JP20110501799T	20090324
JP2013537492 T2	20131003	JP20130519817T	20110714
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MX2010010430 A1	20110321	MX20100010430	20090324
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US2012015176 AA	20120119	US20110182910	20110714	
US2012291377 AA	20121122	US20120454268	20120424	
US2013149511 AA	20130613	US20130759204	20130205	
US2014162038 AA	20140612	US20140182614	20140218	
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US2015183197 AA	20150702	US20150644392	20150311	
US2017036421 AA	20170209	US20160060880	20160304	
US8389107 BB	20130305	US20110182767	20110714	
US8652617 BB	20140218	US20110189102	20110722	
WO09120311 A2	20091001	WO2009US01827	20090324	
WO09120311 A3	20091230	WO2009US01827	20090324	
WO12009514 A1	20120119	WO2011US43972	20110714	
WO12009528 A1	20120119	WO2011US43996	20110714	
WO12106006 A1	20120809	WO2011US45046	20110722	
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Priority:

US20080038971P 20080324	US20090410018 20090324	WO2009US01827 20090324
US20100364298P 20100714	US20100364189P 20100714	US20100364193P 20100714
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US20140484837 20140912	US20150644392 20150311	US20160060880 20160304

Probable Assignee: BIOVATION ACQUISITION CO

Assignee(s): (std): MICHAEL RIEBEL ; MILTON RIEBEL ; RIEBEL MICHAEL ; RIEBEL MILTON ; RIEBEL RYAN ; RIEBEL MICHAEL J ; RIEBEL RYAN W ; BIOVATION ACQUISITION CO ; BIOVATION LLC

Assignee(s): DORSEY AND WHITNEY LLP ; MVC CAPITAL INC

Inventor(s): (std): RIEBEL MICHAEL ; RIEBEL MILTON ; RIEBEL RYAN ; RIEBEL RYAN W ; RIEBEL MICHAEL J ; MILTON RIEBEL ; MICHAEL RIEBEL

Agent(s): GRIFFITH HACK; GRANLEESE RHIAN JANE; MARKS AND CLERK; SCHWEGMAN LUNDBERG AND WOESSNER PA; WINTHROP AND WEINSTINE P A; WINTHROP AND WEINSTINE PA; STEFFEY CHARLES E ET AL; MILLS ALICIA ET AL; DAWSON MICHELLE E 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 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

24) Family number: 20666784 (US6106654A)

PatBase

Title: PROCESS FOR THE MANUFACTURING OF A DECORATIVE THERMO-SETTING PLASTIC LAMINATE

Abstract: PCT No. PCT/SE96/00796 Sec. 371 Date Dec. 12, 1997 Sec. 102(e) Date Dec. 12, 1997 PCT Filed Jun. 18, 1996 PCT Pub. No. WO97/00172 PCT Pub. Date Jan. 13, 1997 Process for the manufacturing of a decorative thermosetting laminate with a wear-resistant and a scratch resistant surface layer, wherein a continuous paper web is impregnated with melamine-formaldehyde resin, that one side of the web is coated with hard particles with a size of 30-90 mu m. After drying, the other side is coated with a melamine-formaldehyde resin containing hard particles with an average particle size of 1-15 mu m. The paper is, after drying, placed as the uppermost sheet in a laminate with the side coated with the smallest particles directed upwards towards a continuous pressure surface.

Classifications:

International (IPC 8-9): B32B27/04 B32B27/20 B32B27/42 B32B29/00 B32B29/06 B32B5/28 B44C5/00 B44C5/04

D21H27/28 (Advanced/Invention);

B32B27/04 B32B29/00 (Advanced/Non-invention);

B32B27/04 B32B27/20 B32B27/42 B32B29/00 B32B5/22 B44C5/00

D21H27/18 (Core/Invention)

International (IPC 1-7): B32B B32B27/04 B32B27/42 B32B29/00

B32B29/06 B32B31/00

CPC: Y10T428/24413 Y10T428/2443 B32B27/42 B44C5/0476 B32B29/005

B32B2260/028 B32B2260/046 B32B2307/554 B32B2317/125

B32B2451/00 D21H27/28

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US: 156/276 156/279 156/307.4 427/204 427/205 428/148 428/150

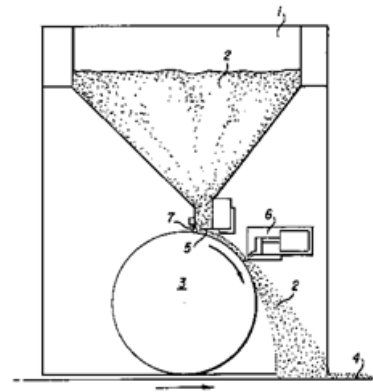


FIG. 1
(PRIOR ART)

Family:

Publication number	Publication date	Application number	Application date
AT232793 E	20030315	AT19960918982T	19960618
AU199661443 A1	19970115	AU19960061443	19960618
BRPI9609418 A	19990518	BR1996PI09418	19960618
CA2224276 AA	19971210	CA19962224276	19960618
CA2224276 C	20060829	CA19962224276	19960618
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DE69626284 C5	20140710	DE19966026284	19960618
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EP0837771 A1	19980429	EP19960918982	19960618
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JP11507604 T2	19990706	JP19970502996T	19960618
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KR19990028222 A	19990415	KR19970709533	19960618
MX9710307 A1	19980731	MX19970010307	19971218
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PL184423 B1	20021031	PL19960324222	19960618
PL324222 A1	19980511	PL19960324222	19960618
RU2159703 C2	20001127	RU19980100765	19960618
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SE504353 C2	19970120	SE19950002218	19950619
SE9502218 A	19961220	SE19950002218D	19950619
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SE9502218 L	19961220	SE19950002218	19950619
US6106654 A	20000822	US19970973688	19971212
WO9700172 A1	19970103	WO1996SE00796	19960618

Priority:

SE19950002218 19950619 WO1996SE00796 19960618

Probable Assignee: PERGO EUROPE AB

Assignee(s): (std): LINDGREN KENT ; NILSSON NILS JOEL ; PERSTORP AB ; VELIN PER ERIK ; PERGO EUROP AB

Assignee(s): PERSTORP ABS ; PERSTORP AB PERSTORP ; PERGO EUROPE AB ; PERGO (EUROPE) AB ; PERGO AB

Inventor(s): (std): K LINDGREN ; KENT LINDGREN ; LINDGREN K ; LINDGREN KENT ; N J NILSSON ; NIL S JOEHL NIL SSON ; NILS JOEL NILSSON ; NILSSON N J ; NILSSON NILS JOEL ; P E VELIN ; PER ERIK VELIN ; PER ERIK VELIN ; VELIN P E ; VELIN PER ERIK

Inventor(s): PER-EHRIK VELIN ; NIL'S-JOEHL' NIL'SSON

Agent(s): FETHERSTONHAUGH AND CO
Designated states: AL AM AT AU AZ BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IS IT JP KE KG KP KR KZ LI LK LR LS LT LU LV MC MD MG MK MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SZ TJ TM TR TT UA UG US UZ VN

25) Family number: 49092788 (US2011139356A)

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Title: METHOD OF MANUFACTURING COATING ELEMENTS AND PRODUCTION INSTALLATION RELATING THERETO

Abstract: The invention entails a method of producing at least one coating element, more particularly at least one decorative layer suitable for coating at least one carrier board (60), whereby

- through unrolling raw fibre material or raw paper, more particularly raw decorative paper, at least one fibre material or paper web (50) is stretched out and
- the stretched out fibre material or paper web (50) is at least partially printed with colour and/or at least one pattern or decoration, as well as production installation (100) relating thereto, in such a way that the coating element can be efficiently produced while reliably avoiding kinks, cracks or changes in shape of the printed fibre material or paper web. After printing the stretched out fibre material or paper web (50) may be at least in parts
- impregnated with at least one resin, more particularly at least one animoplastic and/or thermally hardening synthetic resin, for example melamine resin, and/or
- coated with a layer containing at least one resin, more particularly an aminoplastic and/or thermally hardening synthetic resin, for example melamine resin.

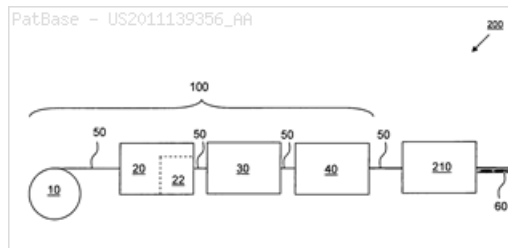
Classifications:

International (IPC 8-9): B32B37/14 (Advanced/Invention)

CPC: B29K2003/00 B29K2995/006 C08L1/02 C08L61/28 C08L2205/16 D21H17/45 D21H17/51 D21H21/26 D21H21/28

European: C08L1/02 C08L61/28 D21H21/28 L29K3/00 L29K995/00F14B M08L205/16 N21H17/45 N21H17/51 N21H21/26

US: 156/229 156/494 156/494S



Family:

Publication number	Publication date	Application number	Application date
US2011139356 AA	20110616	US20090653448	20091214

Priority:

US20090653448 20091214

Probable Assignee: DEKOR KUNSTSTOFFE GMBH

Assignee(s): (std): POHE JORG

Assignee(s): DEKOR KUNSTSTOFFE GMBH

Inventor(s): (std): POHE JORG

26) Family number: 56608821 (US2014154808A)

© PatBase

Title: MONITORING SYSTEM BASED ON ETCHING OF METALS

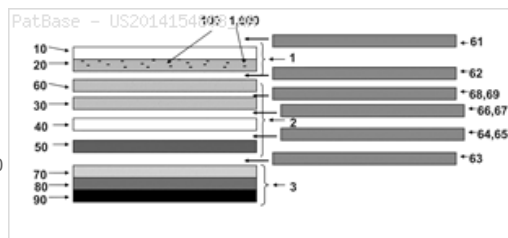
Abstract: Compositions, devices and processes related to etching of a very thin layer or fine particles of a metal are disclosed for monitoring a variety of parameters, such as time, temperature, time-temperature, thawing, freezing, microwave, humidity, ionizing radiation, sterilization and chemicals. These devices have capabilities of producing a long and sharp induction period of an irreversible visual change. The devices are composed of an indicator comprising a very thin layer of a metal and an activator, e.g., a reactant, such as water, water vapor, an acid, a base, oxidizing agent or their precursors, which is capable of reacting with the said indicator. Ink formulations composed of a metal powder and a proper activator can be used for monitoring several sterilization processes, such as sterilization with steam. When water is used as an activator, a thin layer of metals, such as that of aluminum can be used as steam sterilization or humidity indicator.

Classifications:

International (IPC 8-9): A61L2/07 A61L2/20 A61L2/28 C09D11/037 C09D11/322 C12Q1/22 G01K3/04 G01N21/77 G01N31/22 G01N33/02 G01N33/52 (Advanced/Invention)

CPC: A61L2/06 A61L2/28 C09D11/037 C09D11/322 G01N33/52 C12Q1/22 A61L2202/14 G01N31/229 Y10T156/10 Y10T436/206664 G01N33/02 A61L2/07 G01K3/04

US: 156/60 422/400 427/402 427/7 436/1 436/135 436/164 436/2 436/20 436/57



Family:

Publication number	Publication date	Application number	Application date
US2014154808 AA	20140605	US20120692939	20121203
US2017252471 AA	20170907	US20170491549	20170419
US2017261381 AA	20170914	US20170601902	20170522
US2018024011 AA	20180125	US20170602035	20170522

Priority:

US20080130928P 20080604 US20080132799P 20080623 US20080081763P 20080718
US20080095058P 20080908 US20080122547P 20081215 US20090162539P 20090323
US20090215939P 20090512 US20090478232 20090604 US20120692939 20121203
US20170491549 20170419 US20170601902 20170522 US20170602035 20170522

Probable Assignee: JP LABORATORIES
Assignee(s): (std): JP LABORATORIES ; PATEL GORDHANBHAI N
Inventor(s): (std): PATEL GORDHANBHAI N

27) Family number: 55103824 (US2013291990A)

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Title: DUCT INSULATION LAMINATES AND METHODS OF MANUFACTURING AND INSTALLATION

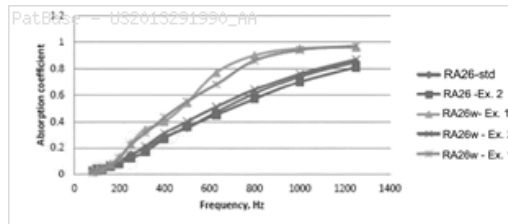
Abstract: A duct insulation laminate an insulation layer and a facing. The insulation layer includes an insulation layer having a first edge surface, a second edge surface that is spaced apart from the first edge surface, a first face surface that extends from the first edge surface to the second edge surface, and a second face surface that is opposed to and spaced apart from the first face surface. The second face surface extends from the first edge surface to the second edge surface. The facing is attached to the first face surface, and includes a polyester blended non-woven veil defining an outermost exterior surface of the duct insulation laminate.

Classifications:

International (IPC 8-9): B32B1/08 B32B27/06 B32B3/04 B32B3/12 B32B37/00 B32B38/00 B32B38/18 B32B5/02 B32B5/24 B32B5/26 B32B7/14 B32B9/00 F16L59/02 F16L59/05 F16L59/10 F16L59/12 F16L59/147 F16L9/21 F24F13/02 (Advanced/Invention)

CPC: B32B5/028 B32B5/022 B32B5/26 B32B5/245 B32B3/12 B32B9/002 B32B7/14 B32B3/04 B32B27/065 B32B37/00 B32B1/08 B32B38/18 B32B38/0004 B32B37/12 B32B2038/047 B32B2305/07 B32B2305/10 B32B2307/102 B32B2307/304 B32B2307/3065 B32B2307/7145 B32B2307/724 B32B2419/00 F16L59/026 Y10T29/49826 Y10T156/10 Y10T428/13 Y10T428/1314 Y10T428/1348 Y10T428/1362 Y10T428/1376 Y10T428/139 Y10T428/24149 Y10T428/2419 Y10T428/2481 Y10T442/184 Y10T442/191 Y10T442/195 Y10T442/197 B32B5/08 B32B7/12 B32B19/06 B32B21/10 B32B2262/0276 B32B2262/101 B32B2262/105 B32B2262/108 F24F13/0281 F24F13/0263 F16L9/21 F16L59/029

US: 138/140 138/141 138/149 156/60 156/73.1 181/286 29/428 428/116 428/121 428/196 428/34.1 428/34.5 428/35.6 428/36.1 428/36.5 428/36.9 442/50 442/54 442/56 442/57



Family:

Publication number	Publication date	Application number	Application date
CA2805785 AA	20131102	CA20132805785	20130212
CA2806773 AA	20131102	CA20132806773	20130220
US2013291990 AA	20131107	US20130770000	20130219
US2013295303 AA	20131107	US20130764920	20130212
US2016025371 AA	20160128	US20150751338	20150626

Priority:

US20120641492P 20120502 CA20132805785 20130212 US20130764920 20130212
US20130770000 20130219 CA20132806773 20130220 US20150751338 20150626

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Agent(s): SMART AND BIGGAR

28) Family number: 31882856 (US2005098255A)

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Title: INSULATION PRODUCT HAVING NONWOVEN FACING AND PROCESS FOR MAKING SAME

Abstract: Insulation products having nonwoven facings and processes for making such products are provided. In a preferred process of making an insulation product, a mat is formed containing randomly oriented inorganic fibers bonded by an adhesive. The mat includes a pair of side portions and first and second major surfaces thereon. A nonwoven layer is formed in situ onto the mat. The nonwoven layer comprises a resinous material which is melt bonded to at least the first major surface of the mat. The preferred insulation products are porous to water vapor and permit air to be evacuated from the mat when the insulation product is compressed, such as during packaging. The preferred insulation products include a nonwoven layer having a thickness of less than about 1 mil and an ASTM E-84 flame spread test of 25 or less in the absence of fire retardants.

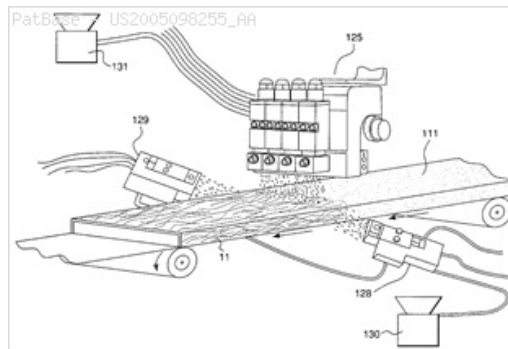
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International (IPC 1-7): B32B19/06 B32B31/00 B32B31/30 B32B5/26 E04B1/00

CPC: B32B7/12 B32B27/34 B32B2255/10 B32B2255/26 B32B2307/7242

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Y10T428/31855 B32B27/30 B32B27/06 B32B27/306 B32B2250/02
B32B2307/7246 B32B2419/04 B32B2605/00 D04H1/56 D04H1/587
D04H1/64 D04H1/60 E04B2001/7687 D04H1/4209 D04H1/4374
D04H1/559 B32B5/28 B32B2305/22 B32B2307/304 E04B1/7662
E04B1/767 D04H1/732 D04H1/4218 B32B38/00 B32B37/00 E04B1/00
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US: 118/302 118/302S 156/167 156/177 156/181 252/62 264/112
264/112S 428/411.1 428/411.100S 428/500 428/500P 442/152 442/152S
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52/741.4 52/741.400P



Family:

Publication number	Publication date	Application number	Application date
AU2005286680 AA	20060330	AU20050286680	20050923
AU2005286680 BB	20110224	AU20050286680	20050923
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BRPI0515512 B1	20160412	BR2005PI15512	20050923
CA2581711 AA	20070321	CA20052581711	20050923
CA2581711 C	20130813	CA20052581711	20050923
CN101375004 A	20090225	CN200580032221	20050923
DE602005046981 D1	20150827	DE200560046981T	20050923
DK1799922 T3	20150824	DK20050799700T	20050923
EA011292 B1	20090227	EA20070000709	20050923
EA200700709 A1	20080228	EA20070000709	20050923
EP1799922 A2	20070627	EP20050799700	20050923
EP1799922 A4	20130911	EP20050799700	20050923
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EP1907207 A1	20080409	EP20060779919	20060714
IN00607KN2007 A	20080905	IN2007KN00607	20070220
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JP4991546 B2	20120801	JP20070533616T	20050923
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KR20070053779 A	20070525	KR20077006580	20050923
NO20072003 A	20070620	NO20070002003	20070419
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UA89796 C2	20100310	UA20070004421	20050923
US2005098255 AA	20050512	US20030704317	20031106
US2006059852 AA	20060323	US20040947186	20040923
US2007015424 AA	20070118	US20050182383	20050715
US2008145681 AA	20080619	US20070955909	20071213
US2008197316 AA	20080821	US20070675129	20070215
WO05046985 A1	20050526	WO2004US36860	20041104
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WO06034381 A3	20070111	WO2005US33912	20050923
WO07010388 A1	20070125	WO2006IB02112	20060714
WO08101081 A2	20080821	WO2008US53967	20080214
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ZA200702094 A	20081126	ZA20070002094	20070312

Priority:

US20030704317	20031106	US20040947186	20040923	US20040947186P	20040923
US20050182383	20050715	EP20050799700	20050923	WO2005US33912	20050923
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Inventor(s): LEMBO MICHAEL ; HAMILTON LUCAS ; TOAS MURRAY ; GLENN J SINGER ; MURRAY S TOAS ; RICHARD S DUNCAN ; DUNCAN RICHARD ; DUNCAN RICHARD S ROYERSFORD ; GATLAND STANLEY DOWNINGTOWN ; HARTZELL BRUCE MICKLETON ; NILSSON ERIC EXTON ; SINGER GLENN J WEST CHESTER ; TOAS MURRAY S NORRISTOWN ; YANG ALAIN VILLANOVA

Agent(s): GRIFFITH HACK ; GOUDREAU GAGE DUBUC ; LAVERY DE BILLY LLP ; BOCKHORN AND KOLLEGEN PATENT U RECHTSANWALTE ; TEYSSERE LAURENT ; DUANE MORRIS LLP, IP DEPARTMENT ; DUANE MORRIS LLP IP DEPARTMENT ; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC ; KITA GERALD K 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 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 SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: TACKY ALLERGEN TRAP AND FILTER MEDIUM, AND METHOD FOR CONTAINING ALLERGENS**Abstract:** An allergen trap is provided. The allergen trap includes a woven or nonwoven substrate having at least one strata. The trap is impregnated with or otherwise treated with a tacky adhesive by which allergens may be trapped. An example of an allergen is a dust mite. The tacky adhesive, in turn, may be treated with a miticide or activated carbon.**Classifications:****International (IPC 8-9):** A01M1/14 A47C27/00 A61L2/00 A61L9/16 B01D39/14 B01D39/16 B01D46/00 B01D46/52 B01D46/521 B01D53/02 B05D1/36 B05D3/02 B05D5/00 B05D5/10 B23B5/02 B29C59/04 B32B21/10 B32B23/02 B32B23/10 B32B27/00 B32B27/04 B32B27/06 B32B27/12 B32B27/18 B32B33/00 B32B37/02 B32B37/06 B32B37/12 B32B37/14 B32B5/02 B32B5/06 B32B5/26 B32B7/02 B32B7/12 B60R13/08 B62D25/04 D03D27/00 D03D9/00 D04H1/00 D04H1/42 D04H1/425 D04H1/54 D04H1/541 D04H1/56 D04H1/58 D04H1/60 D04H13/00 D04H3/12 D04H3/14 D04H3/16 D06M15/19 E04B1/74 E04B1/82 E04B1/84 E04F13/00 F16F15/00 G10K11/16

G10K11/162 (Advanced/Invention);

B60R13/08 D04H13/00 E04B1/74 (Advanced/Non-invention);

A47C27/00 A61L2/00 A61L9/16 B01D39/14 B01D46/00 B01D46/52 B01D53/02 B05D1/36 B05D3/02 B05D5/00 B05D5/10 B29C59/04 B32B21/00 B32B23/00 B32B27/00 B32B27/04 B32B27/06 B32B27/12 B32B33/00 B32B37/06 B32B37/12 B32B5/02 B32B5/06 B32B5/22 B32B7/02 B60R13/08 B62D25/04 D03D27/00 D03D9/00 D04H1/00 D04H1/42 D04H1/54 D04H1/56 D04H1/58 D04H13/00 D04H3/08 D04H3/14 D04H3/16 D06M15/19 E04B1/74 E04B1/82 E04F13/00 F16F15/00 G10K11/00 (Core/Invention);

B60R13/08 (Core/Non-invention)

International (IPC 1-7): B01D39/14 D04H13/00**CPC:** B01D46/521 B01D2239/025 B01D2239/0414 B01D2239/0631 B01D2239/0681 B01D2239/069 B01D2239/0695 B01D2239/1233 Y10T156/10 Y10T428/24752 Y10T428/24777 Y10T428/24802 Y10T428/28 B60R13/0815 B60R13/0838 B60R13/0861 B01D2239/0208 B01D2239/0233 B01D2239/0407 B01D2239/0442 B01D2239/0464 B01D2239/0478 B01D2239/0613 B01D2239/0622 B01D2239/0627 B01D2239/064 B01D2239/065 B01D2239/0654 B01D2239/0668 B01D2239/086 B01D2239/1291 Y10T428/24942 A62C2/06 A62C3/07 B32B5/22 D06M11/72 D06M13/292 D06M15/643 E04B1/94 Y10T442/10 Y10T442/159 Y10T442/197 Y10T442/3537 Y10T442/3707 Y10T442/60 Y10T442/641 Y10T442/659 Y10T442/66 Y10T442/666 Y10T442/2541 Y10T442/2738 Y10T442/2754 Y10T442/3732 Y10T442/374 Y10T442/3756 Y10T442/378 Y10T442/3789 Y10T442/3813 Y10T442/3829 Y10T442/3837 Y10T442/664 Y10T442/668 Y10T442/697 Y10T442/698 Y10T442/699 Y10T442/68 Y10T442/681 Y10T442/696 Y10T442/608 B60R13/083 B60R13/0846 B01D2239/0457 A47C31/007 B01D39/163 B01D2239/0216 D04H1/425 D04H1/4382 B01D39/18 D04H1/4374 B01D39/1623 D04H1/541 D04H1/593 D04H1/60 D04H1/64 G10K11/162 D06M11/82 D06M2200/30 D06N3/0059 D06N3/0063 D06N7/0005 D06N2209/025 D06N2209/067 B60R13/08 B32B5/26 B32B5/022 B32B2262/02 B32B2262/062 B32B2307/102 B32B2307/3065 B32B2419/00 D21H21/34**European:** A47C31/00M B01D39/16B4 B01D39/16B4B B01D39/18 B01D46/52F B32B27/12 B32B5/22 B60R13/08 D04H1/42 D04H13/00B2 D04H13/00B4 D04H13/00B5 D06M11/72 D06M13/292 D06M15/643 D21H21/34 G10K11/162 K62C2/06 K62C3/07 L01D239/02B L01D239/02D L01D239/02H L01D239/04B L01D239/04D L01D239/04H L01D239/04N L01D239/04P2 L01D239/06B20 L01D239/06B31 L01D239/06B32 L01D239/06B33 L01D239/06B41 L01D239/06F L01D239/06F10 L01D239/06F40 L01D239/06F50 L01D239/06H L01D239/06H2 L01D239/08D L01D239/12H L01D239/12Y L60R13/08 L60R13/08B L60R13/08B2 L60R13/08C L60R13/08D L60R13/08F P04B1/94**US:** 134/6 134/6S 156/279 156/279S 156/60 156/60S 156/71 156/71S 181/208 181/208S 181/284 181/286 181/286S 181/290 181/294 210/767 210/767S 264/119 264/119S 264/126 264/126S 296/146.5 296/146.500P 422/4 422/4S 427/201 427/201S 427/207.1 427/207.100S 427/209 427/209S 427/372.2 427/372.200S 427/407.1 427/407.100S 427/412 427/412S 428/189 428/189S 428/192 428/192S 428/195.1 428/195.100S 428/212 428/212P 428/219 428/219S 428/220 428/220S 428/343 428/85 428/85S 442/1 442/125 442/125S 442/149 442/149S 442/151 442/151S 442/1S 442/247 442/247S 442/268 442/268S 442/271 442/272 442/274 442/277 442/278 442/281 442/283 442/284 442/327 442/327S 442/334 442/334S 442/35 442/35S 442/364 442/364S 442/381 442/381S 442/382 442/382S 442/385 442/387 442/387S 442/389 442/400 442/400S 442/401 442/401S 442/414 442/414S 442/415 442/416 442/417 442/57 442/57S 55/486 55/521 55/521P 55/524 55/524P 55/524S 55/527 55/527P 55/527S 55/528 95/285 95/285P 96/153 96/153S 96/226 96/226S**Family:**

Publication number	Publication date	Application number	Application date
BRPI0612326 A2	20101103	BR2006PI12326	20060331
BRPI0706927 A2	20110419	BR2007PI06927	20070118
CA2603421 AA	20070928	CA20062603421	20060331
CA2603421 C	20130521	CA20062603421	20060331
CA2637256 AA	20080715	CA20072637256	20070118
CA2637256 C	20140708	CA20072637256	20070118
CA2656493 AA	20081229	CA20072656493	20070702
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CN101189380 A	20080528	CN200680010884	20060331
CN101189380 B	20121219	CN200680010884	20060331
CN101553358 A	20091007	CN200780007598	20070118
CN101553358 B	20160907	CN200780007598	20070118
CN102963107 A	20130313	CN201210421360	20060331
CN102963107 B	20150923	CN201210421360	20060331
CN104015413 A	20140903	CN201310581276	20070118
CN104015413 B	20180622	CN201310581276	20070118
DE602006051481 D1	20170223	DE200660051481T	20060331
EP1877611 A2	20080116	EP20060740370	20060331
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PatBase - US2007175195_AA

Patent Application Publication Aug. 2, 2007 Sheet 1 of 14 US 2007/0175195 A1

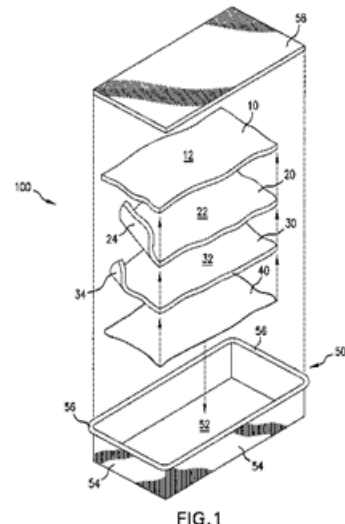


FIG.1

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EP2035632 A4	20140514	EP20070812556	20070702
EP2628837 A1	20130821	EP20130167794	20060331
EP2628837 B1	20170104	EP20130167794	20060331
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IN07525DN2007 A	20071109	IN2007DN07525	20071001
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IN264099 B	20141212	IN2008DN06213	20080716
IN289549 B	20171117	IN2007DN07525	20071001
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JP5827980 B2	20151202	JP20130211842	20131009
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MX2007011999 A1	20080314	MX20070011999	20060331
MX2008009176 A1	20080925	MX20080009176	20070118
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US2016243477 AA	20160825	US20160145680	20160503
US7727915 BB	20100601	US20070624580	20070118
US7837009 BB	20101123	US20060541320	20060929
US7878301 BB	20110201	US20070772628	20070702
US7918313 BB	20110405	US20060592067	20060331
WO06107847 A2	20061012	WO2006US12256	20060331
WO06107847 A3	20070215	WO2006US12256	20060331
WO07084953 A2	20070726	WO2007US60710	20070118
WO07084953 A3	20090409	WO2007US60710	20070118
WO08005936 A2	20080110	WO2007US72670	20070702
WO08005936 A3	20081113	WO2007US72670	20070702
WO08005936 C2	20080228	WO2007US72670	20070702
WO09012333 A2	20090122	WO2008US70222	20080716
WO09012333 A3	20090305	WO2008US70222	20080716

Priority:

US20050667873	20050401	US20050667873P	20050401	US20050729264P	20051021
US20060760323P	20060118	CN200680010884	20060331	EP20060740370	20060331
JP20080504489	20060331	EP20130167794	20060331	US20060592067	20060331
JP20080504489T	20060331	WO2006US12256	20060331	US20060817749P	20060630
US20060541320	20060929	US20060848105P	20060929	WO2007US60710	20070108
US20070880873P	20070116	US20070880873P	20070117	CN200780007598	20070118
US20070624580	20070118	WO2007US60710	20070118	US20070947266P	20070629
US20070772628	20070702	WO2007US72670	20070702	US20070950269P	20070717
US20070779751	20070718	IN2008DN06213	20080716	US20080174424	20080716
US20090643717	20091221	US20160145680	20160503		

Probable Assignee: BUCKEYE TECHNOLOGIES INC

Assignee(s): (std): BOEHMER BRIAN ; GROSS JAMES R ; HURLEY JEFFREY S ; BOEHMER BRIAN E ; GROSS JAMES RICHARD ; HURLEY JEFFREY SCOTT ; BUCKEYE TECHNOLOGIES INC ; BUCKEYE TECHNOLOGIES ; BKI HOLDING CORP ; BUCKEYE TECH INC ; ROBERTS JOHN H ; MOOSE LAURENCE A JR ; SKIRIUS STEPHEN A ; SUNDARA NAMITHA R ; MOOSE RONALD TIMOTHY ; MOOSE RONALD T ; NAMITHA SUNDARA R ; MOOSE JR LAURENCE A

Assignee(s): GEORGIA PACIFIC NONWOVENS LLC ; GEORGIA PACIFIC NONWOVENS LLC ATLANTA ; MOOSE LAURENCE A ; BKI HOLDING CORP900-300 DELAWARE AVENUEWILMINGTONDE19081US ; BANK OF AMERICA NA ; BANK OF AMERICA NA COLLATERAL AGENT AS ; BUCKEYE TECHNOLOGIES INC1001 TILLMAN STREETMEMPHISTN38108-0407US

Inventor(s): (std): CONROY NAMITHA R ; GROSS JAMES RICHARD ; HURLEY JEFFREY SCOTT ; MOOSE JR LAURENCE A ; MOOSE RONALD TIMOTHY ; NAMITHA SUNDARA R ; SUNDARA NAMITHA R ; SKIRIUS STEPHEN A ; S A SKIRIUS ; ROBERTS JOHN H ; N R SUNDARA ; MOOSE RONALD T ; MOOSE LAURENCE JR ; MOOSE LAURENCE A JR ; J H ROBERTS ; HURLEY JEFFREY S ; GROSS JAMES R ; BRIAN BOEHMER ; B BOEHMER ; RONALD TIMOTHY MOOSE ; MOOSE RONALD TIMOTHY ; JEFFREY S HURLEY ; L A MOOSE JR ; BOEHMER BRIAN E ; BOEHMER BRIAN ; BOHEMER BRIAN E

Inventor(s): BOEHMER BRIAN E CARDOVA ; BBOEHMER ; JHROBERTS ; JAMES R GROSS ; BRIAN E BOEHMER ; MOOSE LAURENCE A ; BRIAN E BOHEMER ; BOEHMER BRIANUS ; MOOSE LAURENCE ; LAURENCE MOOSE JR ; LAMOORE JR ; MOOSE LAURENCE AJR ; MOOSE LAURENCE A JRUS ; ROBERTS JOHN ; NRSUNDARA ; ROBERTS JOHN HUS ; SKIRIUS STEPHEN ; SASKIRIUS ; SUNDARA NAMITHA RUS ; SKIRIUS STEPHEN AUS ; STEPHEN A SKIRIUS ; SUNDARA NAMITHA ; MOOSE RONALD TIMOTHY LAKELAND ; MOOSE RONALD ; JOHN H ROBERTS ; LAURENCE A MOOSE JR ; HURLEY JEFFREY ; HURLEY JEFFREY S ARDSLEY ; GROSS JAMES ; GROSS JAMES R CARDOVA

Agent(s): BERESKIN AND PARR LLP SENCRL SRL; BERESKIN AND PARR; SMART AND BIGGAR; HOFFMANN EITL PATENT U RECHTSANWAELTE PARTMBB; HOFFMANN EITL; BAKER BOTTS LLP; FEHLNER PAUL F 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 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 YU ZA ZM ZW

30) Family number: 15254881 (US2003035917A)

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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
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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: MULTIPLE LAYER GYPSUM CELLULOSE FIBER COMPOSITE BOARD AND THE METHOD FOR THE MANUFACTURE THEREOF

Abstract: A gypsum cellulose fiber composite board having a cellulosic fiber layer on at least one surface layer of the composite material is disclosed. A continuous method for preparing the composite board is described wherein a cellulosic fiber first slurry is deposited on a traveling web from a head box to form a first cellulosic layer and a co-calcined gypsum and cellulosic fiber second slurry is deposited to form a co-calcined gypsum and cellulosic fiber second layer on the cellulosic first layer. If desired a cellulosic fiber third layer is deposited or coated on top of the co-calcined gypsum and cellulosic fiber second layer. A method including laminating a layer of wallboard paper to at least one surface of a co-calcined gypsum and cellulosic fiber composite panel is also disclosed.

Classifications:

International (IPC 8-9): B32B13/02 B32B13/08 B32B3/18 C04B11/024

C04B2/10 C09K3/22 E04C2/288 (Advanced/Invention);

B32B13/00 B32B3/18 C04B2/00 C09K3/22 (Core/Invention);

C04B11/024 E04C2/288 (Core/Non-invention)

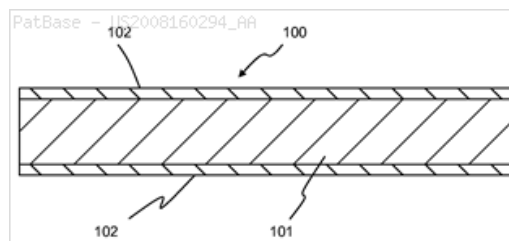
CPC: Y10T428/26 B32B13/02 B32B13/14 C04B28/14 C04B2111/0062

E04C2/043 Y10T428/31996 Y02W30/97

European: B32B13/02 B32B13/14 C04B28/14 E04C2/04C

M04B111/00T6B

US: 156/42 156/42S 428/332 428/332P 428/537.7 428/537.700S



Family:

Publication number	Publication date	Application number	Application date
TW200844067 A	20081116	TW20070150395	20071226
US2008160294 AA	20080703	US20060616454	20061227
WO08085243 A1	20080717	WO2007US25202	20071210

Priority:

US20060616454 20061227

Probable Assignee: UNITED STATES GYPSUM CO

Assignee(s): (std): BAIG MIRZA A ; UNITED STATES GYPSUM CO ; WHITE WILLIAM O

Assignee(s): UNITED STATES GYPSUM COMPANY ; UNITED STATES GYPSUM COMPANYUS

Inventor(s): (std): WHITE WILLIAM O ; BAIG MIRZA A

Agent(s): NOVAK DRUCE AND QUIGG LLP ANTHONY P VENTURINO; JNCI DAVID F ET AL

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 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 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: MULTIPLE LAYER NONWOVEN MAT AND LAMINATE

Abstract: The invention includes fibrous nonwoven multiple layer mats having at least two layers with a body portion layer and a surface portion layer having fine fibers and/or particles therein, both layers being bonded together and to each other with a same resin binder. Preferably most or essentially all of the particles and/or fibers in the surface layer are larger than openings between the fibers in the body portion of the mat. The mats produced according to this invention are useful as a facer for all types of boards such as wood boards, wood product boards, insulating boards and hard boards of all types, and also as reinforcement and dimensional stabilizers for making a large number of novel laminate products and for a myriad of other uses. These mats are made on a wet laid nonwoven mat machine with a modification to the binder preparation system, an inventive step in the preparation of the binder and in the selection of ingredients for a binder slurry.

Classifications:

International (IPC 8-9): B32B5/24 D21H27/38

D21J1/08 (Advanced/Invention);

B32B5/22 D21H27/30 D21J1/00 (Core/Invention)

International (IPC 1-7): B05D3/02 B32B27/04 B32B27/12 B32B5/02

D21H27/38 D21J1/08

CPC: Y10T442/2738 Y10T442/2746 Y10T442/697 Y10T442/699 B32B5/24

D21H27/38 B32B5/26 B32B5/022 B32B2262/04 B32B2262/101

B32B2262/105 B32B2315/14 B32B2471/04 D21J1/08

European: B32B5/24 D21H27/38 D21J1/08

US: 427/385.5 427/389.7 427/389.8 427/389.9 427/393.6 442/149

442/150 442/415 442/417

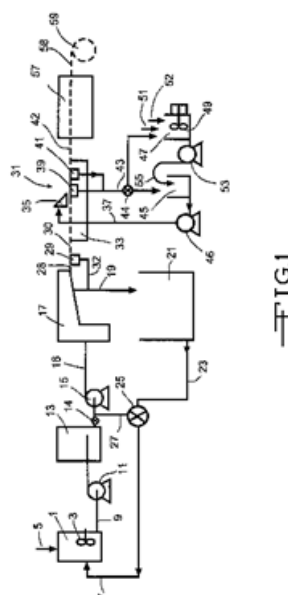


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
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DE69914870 D1	20040325	DE19996014870T	19991119
DE69914870 T2	20040805	DE19996014870T	19991119
EP1016757 A1	20000705	EP19990122982	19991119
EP1016757 B1	20040218	EP19990122982	19991119
US6187697 BA	20010213	US19980224391	19981231
US6432482 BA	20020813	US20000665735	20000920

Priority:

US19980224391 19981231 US20000665735 20000920

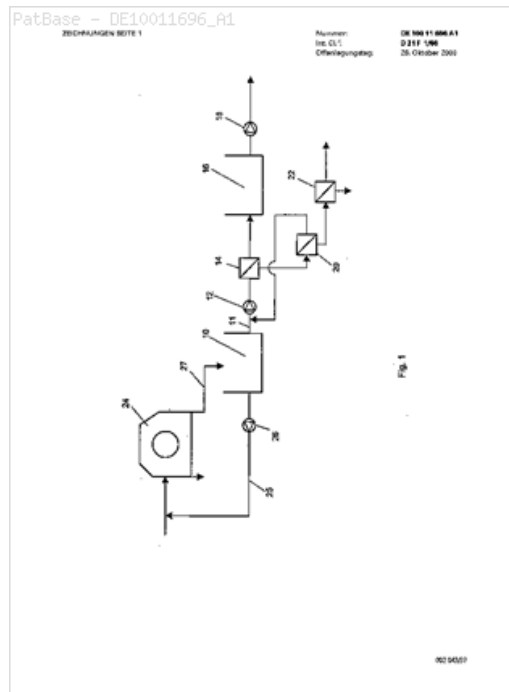
Probable Assignee: JOHNS MANVILLE INT INC**Assignee(s):** (std): JAFFEE ALAN MICHAEL ; JOHNS MANVILLE INT INC ; KAJANDER RICHARD EMIL**Assignee(s):** JOHNS MANVILLE INTERNATIONAL INC ; JOHNS MANVILLE INT**Inventor(s):** (std): JAFFEE ALAN MICHAEL ; KAJANDER RICHARD EMIL**Designated states:** BE DE FI FR GB IE**33) Family number: 28638953** (DE10011696A1)

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Title: Recovering fibres from white water in pulp, paper or board making process, by filtration using a pulp fraction taken from the pulp mixing vessel

Abstract: A pulp fraction taken from the pulping process, which has better infiltration properties than the pulp obtained from the pulp mixing vessel (10), is used to assist filtration in the fibre recovery device (24). A method for treating white water obtained in a pulp, paper or board making process as a filtrate containing fibrous material separated from a fibrous suspension, comprises supplying the white water to a fibre recovery installation where the useful fibrous material is separated from the filtrate using a fibrous layer formed by an auxiliary pulp. This material comprises a pulp fraction taken from the pulping process, which has better infiltration properties than the pulp obtained from the pulp mixing vessel. The recovered fibres are then returned to the process. Independent claims are also included for white water treatment installations.

Classifications:**International (IPC 8-9):** C02F9/00 (Advanced/Invention); C02F9/00 (Core/Invention)**International (IPC 1-7):** B01D37/02 C02F1/52 D21F1/66**CPC:** C02F1/004 C02F11/121 C02F2103/28**European:** C02F1/00D6 C02F11/12C M02F103/28



Family:

Publication number	Publication date	Application number	Application date
DE10011696 A1	20001026	DE20001011696	20000310
FI113948 B	20040715	FI19990000520	19990310
FI990520 A	20000911	FI19990000520	19990310
FI990520 A0	19990310	FI19990000520	19990310
SE200000801 A	20000911	SE20000000801D	20000310
SE200000801 A0	20000310	SE20000000801	20000310
SE200000801 L	20000911	SE20000000801	20000310
SE518612 C2	20021029	SE20000000801	20000310

Priority:

FI19990000520 19990310

Probable Assignee: ANDRITZ OY

Assignee(s): (std): AHLSTROM MACHINERY OY ; AHLSTROM MACHINERY OY ESPOO ; ANDRITZ OY

Inventor(s): (std): ARI VILPPONEN ; HEISKANEN PASI ; KADER RAHKONEN ; PASI HEISKANEN ; RAHKONEN KADER ; VILPPONEN ARI

34) Family number: 48490953 (US2012128950A)

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Title: FUNCTIONAL INORGANIC BOARD AND MANUFACTURING METHOD THEREOF

Abstract: The present invention relates to an inorganic board comprising a base layer containing magnesium-based inorganic materials and phase change materials, and to a method for producing the board. The inorganic board of the present invention employs magnesium-based inorganic materials instead of plaster used in conventional boards, and thus improves the strength and water resistance thereof as compared to conventional plaster boards. Accordingly, the board of the present invention is formed so as to be thin, and the content of the phase change materials in the base layer increases by the superior blending ratio of magnesium-based inorganic materials and phase change materials, thus maintaining the indoor temperature of the structure constructed by the board of the present invention at a comfortable level. Therefore, the inorganic board of the present invention can be effectively used in interior materials or the like for a building, which require strength and water resistance properties.

Classifications:

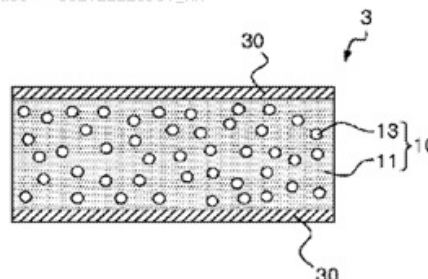
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CPC: C04B28/30 C04B20/1029 C04B28/105 Y10T428/31786 Y10T428/31971 Y10T428/31993 C04B2103/0071 C04B24/02 Y10T428/24802 Y10T428/24926 Y10T428/24934

European: C04B20/10B4 C04B28/10M C04B28/30

US: 1/1 106/157.2 106/157.200S 106/285 106/285S 106/286.6 106/286.600S 264/299 264/299S 264/319 264/319S 264/328.6 264/328.600S 428/195.1 428/195.100S 428/210 428/210P 428/211.1 428/211.100S 428/432 428/432S 428/480 428/480S 428/532 428/532S 428/537.5 428/537.500S 524/436 524/436S

PatBase - US2012128950_AA



Family:

Publication number	Publication date	Application number	Application date
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CN102470641 A	20120523	CN201080035658	20100824
CN102470641 B	20150826	CN201080035658	20100824
EP2481577 A2	20120801	EP20100817361	20100824
EP2481577 A4	20140122	EP20100817361	20100824
JP2013504511 T2	20130207	JP20120529653T	20100824
KR101283793 B1	20130708	KR20090089274	20090921
KR20110031855 A	20110329	KR20090089274	20090921
US2012128950 AA	20120524	US20100387510	20100824
US9061941 BB	20150623	US20100387510	20100824
WO11034292 A2	20110324	WO2010KR05620	20100824
WO11034292 A3	20110707	WO2010KR05620	20100824

Priority:

KR20090089274 20090921 WO2010KR05620 20100824

Probable Assignee: LG HAUSYS LTD

Assignee(s): (std): CHUNG JONG WON ; HWANG SUNG SEOCK ; KANG GILHO ; LG HAUSYS LTD ; PARK SEONGCHAN

Inventor(s): (std): PARK SEONGCHAN ; KANG GILHO ; CHUNG JONG WON ; HWANG SUNG SEOCK ; PARK SEONG CHAN ; KANG GIL HO ; SUNG SEOCK HWANG ; SEONGCHAN PARK ; GILHO KANG ; JONG WON CHUNG

Agent(s): PLOUGMANN AND VINGTOFT A S; SANJANA; NATH GOLDBERG AND MEYER; JOSHUA B; DAE A INTERNATIONAL IP AND LAW FIRM

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 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

35) Family number: 58071978 (US2014370319A)

© PatBase

Title: METHOD OF MANUFACTURING A WOOD-BASED BOARD AND SUCH A WOOD-BASED BOARD

Abstract: A method of manufacturing a wood-based board (10). The method includes applying at least one first fibre mat (11) including a first mix comprising lignocellulosic particles and a binder on a carrier (13), applying a second fibre mat (12) including a second mix including cellulosic particles and a binder on said at least one first fibre mat (11), and pressing said at least one first fibre mat (11) into a base layer (14) and the second fibre mat (12) into a surface layer (15) simultaneously, thereby forming a wood-based board (10). Also, to such a wood-based board (10).

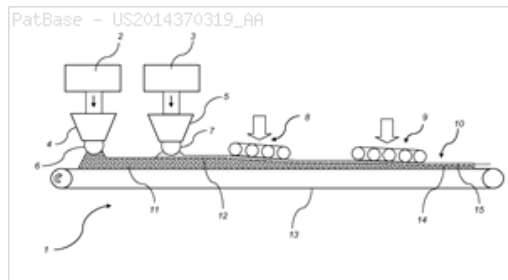
Classifications:

International (IPC 8-9): B27N3/02 B27N3/08 B27N7/00 B32B21/02 B32B21/04 B32B21/12 B32B27/04 B32B37/06 B32B37/10 B32B37/24 B32B38/14 B32B9/02 B32B9/04 B44C5/04 E04C2/16 E04C2/24 (Advanced/Invention);

B27N3/02 (Core/Invention)

CPC: B27N3/08 B27N7/005 Y10T428/31982 E04C2/16

US: 264/132 264/173.1 428/535



Family:

Publication number	Publication date	Application number	Application date
AU2014281243 AA	20151217	AU20140281243	20140616
AU2014281243 BB	20180301	AU20140281243	20140616
BR112015030875 A2	20170725	BR20151130875	20140616
CA2913290 AA	20151123	CA20142913290	20140616
CL2015003588 A1	20160715	CL20150003588	20151210
CN105283280 A	20160127	CN201480033272	20140616
CN105283280 B	20190108	CN201480033272	20140616
CN109366679 A	20190222	CN201811525788	20140616
EA201592295 A1	20160429	EA20150092295	20140616
EP3010694 A1	20160427	EP20140813901	20140616
EP3010694 A4	20170823	EP20140813901	20140616
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IN201647000479 A	20160701	IN201647000479	20160106
MX2015016974 A1	20160425	MX20150016974	20140616
TH159966 A	20170207	TH20151007397	20140616
UA117754 C2	20180925	UA20160000166	20140616
US2014370319 AA	20141218	US20140305251	20140616
WO14204386 A1	20141224	WO2014SE50730	20140616

Priority:

SE20130050733 20130617 CN201480033272 20140616 WO2014SE50730 20140616

Probable Assignee: VALINGE INNOVATION AB

Assignee(s): (std): VAELINGE INNOVATION AB ; VALINGE INNOVATION AB

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