

Search query (2): [SP]: 1. a panel comprising a plasterboard, the plasterboard having a backing lamina attached to one of the faces thereof, the plasterboard comprising a gypsum matrix having fibres embedded therein in an amount of at least 1 wt percent relative to the gypsum. 2. a panel according to claim 1, wherein the gypsum matrix further comprises a starch additive, the starch additive being present in an amount of at least 1 wt percent relative to the gypsum. 3. a panel according to claim 2, wherein the starch additive is present in the gypsum matrix of the plasterboard in an amount of at least 2 wt percent relative to the gypsum. 4. a panel according to claim 1, wherein the fibres are present in the gypsum matrix of the plasterboard in an amount of at least 2 wt percent relative to the gypsum. 5. a panel according to claim 1, in which the fibres are selected from a group comprising glass fibres, wood fibres, fibres derived from wood (such as regenerated cellulose fibres), and mixtures thereof. 6. a panel according to claim 5, wherein the fibres are regenerated cellulose fibres and further wherein the average length of the fibres lies in the range 0.1-0.5 mm and/or the average diameter of the fibres is below 20 micron. 7. a panel according to claim 1, wherein the fibres are present within the board in the form of particles of agglomerated fibres, such as paper particles or wood particles. 8. a panel according to claim 7, wherein the maximum dimension of the particles is in the range 0.5-3 mm and/or the average length of the fibres within the particles is in the range 1-15 mm and/or the average diameter of the fibres within the particles is in the range 1-50 micron. 9. a panel according to claim 5, wherein the fibres are glass fibres and further wherein the average length of the fibres lies in the range 10-50 mm and/or the average diameter of the fibres lies in the range 20-80 micron. 10. a panel according to claim 5, wherein the fibres are glass fibres and further wherein the average length of the fibres lies in the range 10-50 mm and/or the average diameter of the fibres lies in the range 20-80 micron. 11. a panel according to claim 2, wherein the starch is a non-migratory starch. 12. a panel according to claim 11, wherein the starch is selected from the group comprising: dextrin, pre-gelatinised starch, substituted starch, and starch having a brookfield viscosity of less than 60 cps at a temperature below 60 degrees centigrade and a brookfield viscosity greater than 10,000 cps at a temperature of 70 degrees centigrade. 13. a panel according to claim 11, wherein the starch is a substituted starch and the substituent group is an ether substituent group or an ester substituent group. 14. a panel according to claim 1, wherein the lamina comprises substantially a material selected from the group comprising: pvc, hdpe, nylon, polycarbonate, bakelite, polypropylene, acetal, and fibreglass. 15. a panel according to claim 1, wherein the lamina has a thickness of at least 1 mm. 16. a plasterboard comprising a gypsum matrix having fibres embedded therein in an amount of at least 1 wt percent relative to the gypsum, the gypsum matrix further comprising a polymeric additive, the polymeric additive being present in an amount of at least 1 wt percent relative to the gypsum. 17. a plasterboard according to claim 16, wherein the fibres are present in an amount of at least 3 wt percent relative to the gypsum, and the polymeric additive is present in an amount of at least 3 wt percent relative to the gypsum. 18. a plasterboard according to claim 16, wherein the polymeric additive is selected from group comprising polyvinyl acetate, poly vinyl acetate-ethylene co-polymer, polyvinyl pyrrolidone crosslinked with polystyrene sulfonate, polyvinyl alcohol, methyl cellulose, hydroxyethyl methyl cellulose, styrene-butadiene copolymer latex, acrylic ester latex, acrylic copolymer latex, polyester resin, epoxy resin, polymethyl methacrylate, polyacrylic acid, cationic starch, ethylated starch, dextrin and mixtures thereof. 19. a plasterboard according to claim 16, wherein the polymeric additive is a starch. 20. a plasterboard according to claim 19, wherein the starch is a migratory starch. 21. a plasterboard according to claim 19, wherein the starch is an acid-thinned starch. 22. a plasterboard according to claim 19, wherein the starch is a native starch. 23. a plasterboard according to claim 16, wherein the fibres are glass fibres. 24. a plasterboard according to claim 23, wherein the fibres are 4-10 mm long. 25. a plasterboard according to claim 23, wherein the fibre diameter is in the range 5-50 micron. 26. a method of manufacturing a plasterboard according to claim 19, comprising the step of adding starch to a gypsum slurry, wherein the grain size of the starch is less than 40 micron. 27. a method of manufacturing a plasterboard according to claim 19, wherein the plasterboard is dried at a temperature in the range 140-180 degrees centigrade

Results: 16

Search history

Search TAC=(panel AND glass fibres and nonmigratory starch) (Results 1)

1:

Search [SP]: 1. a panel comprising a plasterboard, the plasterboard having a backing lamina attached to one of the faces thereof, the plasterboard comprising a gypsum matrix having fibres embedded therein in an amount of at least 1 wt percent relative to the gypsum. 2. a panel according to claim 1, wherein the gypsum matrix further comprises a starch additive, the starch additive being present in an amount of at least 1 wt percent relative to the gypsum. 3. a panel according to claim 2, wherein the starch additive is present in the gypsum matrix of the plasterboard in an amount of at least 2 wt percent relative to the gypsum. 4. a panel according to claim 1, wherein the fibres are present in the gypsum matrix of the plasterboard in an amount of at least 2 wt percent relative to the gypsum. 5. a panel according to claim 1, in which the fibres are selected from a group comprising glass fibres, wood fibres, fibres derived from wood (such as regenerated cellulose fibres), and mixtures thereof. 6. a panel according to claim 5, wherein the fibres are regenerated cellulose fibres and further wherein the average length of the fibres lies in the range 0.1-0.5 mm and/or the average diameter of the fibres is below 20 micron. 7. a panel according to claim 1, wherein the fibres are present within the board in the form of particles of agglomerated fibres, such as paper particles or wood particles. 8. a panel according to claim 7, wherein the maximum dimension of the particles is in the range 0.5-3 mm and/or the average length of the fibres within the particles is in the range 1-15 mm and/or the average diameter of the fibres within the particles is in the range 1-50 micron. 9. a panel according to claim 5, wherein the fibres are glass fibres and further wherein the average length of the fibres lies in the range 10-50 mm and/or the average diameter of the fibres lies in the range 20-80 micron. 10. a panel according to claim 5, wherein the fibres are glass fibres and further wherein the average length of the fibres lies in the range 10-50 mm and/or the average diameter of the fibres lies in the range 20-80 micron. 11. a panel according to claim 2, wherein the starch is a non-migratory starch. 12. a panel according to claim 11, wherein the starch is selected from the group comprising: dextrin, pre-gelatinised starch, substituted starch, and starch having a brookfield viscosity of less than 60 cps at a temperature below 60 degrees centigrade and a brookfield viscosity greater than 10,000 cps at a temperature of 70 degrees centigrade. 13. a panel according to claim 11, wherein the starch is a substituted starch and the substituent group is an ether substituent group or an ester substituent group. 14. a panel according to claim 1, wherein the lamina comprises substantially a material selected from the group comprising: pvc, hdpe, nylon, polycarbonate, bakelite, polypropylene, acetal, and fibreglass. 15. a panel according to claim 1, wherein the lamina has a thickness of at least 1 mm. 16. a plasterboard comprising a gypsum matrix having fibres embedded therein in an amount of at least 1 wt percent relative to the gypsum, the gypsum matrix further comprising a polymeric additive, the polymeric additive being present in an amount of at least 1 wt percent relative to the gypsum. 17. a plasterboard according to claim 16, wherein the fibres are present in an amount of at least 3 wt percent relative to the gypsum, and the polymeric additive is present in an amount of at least 3 wt percent relative to the gypsum. 18. a plasterboard according to claim 16, wherein the polymeric additive is selected from group comprising polyvinyl acetate, poly vinyl acetate-ethylene co-polymer, polyvinyl pyrrolidone crosslinked with polystyrene sulfonate, polyvinyl alcohol, methyl cellulose, hydroxyethyl methyl cellulose, styrene-butadiene copolymer latex, acrylic ester latex, acrylic copolymer latex, polyester resin, epoxy resin, polymethyl methacrylate, polyacrylic acid, cationic starch, ethylated starch, dextrin and mixtures thereof. 19. a plasterboard according to claim 16, wherein the polymeric additive is a starch. 20. a plasterboard according to claim 19, wherein the starch is a migratory starch. 21. a plasterboard according to claim 19, wherein the starch is an acid-thinned starch. 22. a plasterboard according to claim 19, wherein the starch is a native starch. 23. a plasterboard according to claim 16, wherein the fibres are glass fibres. 24. a plasterboard according to claim 23, wherein the fibres are 4-10 mm long. 25. a plasterboard according to claim 23, wherein the fibre diameter is in the range 5-50 micron. 26. a method of manufacturing a plasterboard according to claim 19, comprising the step of adding starch to a gypsum slurry, wherein the grain size of the starch is less than 40 micron. 27. a method of manufacturing a plasterboard according to claim 19, wherein the plasterboard is dried at a temperature in the range 140-180 degrees centigrade (Results 16)

1) Family number: 693891 (FR2125733A)

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Title: STRUCTURAL PANELS - BASED ON PLASTER, CONTG ACRYLIC RESINS

Abstract: Source: FR2125733A Panels based on plaster, and used for building chalets, etc. consist of a mixture of plaster with (a) 0.03-5 percent, pref. 1-3 percent of glass fibre, (b) 1-50 percent, pref. 10-30 percent of chalk, pref. added as quicklime, (c) 1-30 percent, pref. 5-15 percent of sand, partic. silica sand and (d) 2-15 percent, pref. 5-10 percent of acrylic resin, partic. from acrylic esters, with sufficient water to form a settable mass. Panels may be made with an inner core of vegetable matter such as cane, straw, wood fibres or wood shavings. The panels are hard, have good flexural resistance, good thermal and sound insulation and are non-combustible.

Classifications:

International (IPC 8-9): C04B28/14 C04B33/13 (Advanced/Invention);

C04B28/00 C04B33/02 (Core/Invention)
International (IPC 1-7): C04B13/00 C04B13/14 C04B43/00 E04C2/00
CPC: Y02W30/97 C04B33/1315 C04B28/14 C04B33/13
European: C04B28/14 C04B33/13 C04B33/13L

Family:

Publication number	Publication date	Application number	Application date
FR2125733 A5	19720929	FR19710005595	19710218

Priority:

FR19710005595 19710218

Probable Assignee: SCHWARTZ DESIRE

Assignee(s): (std): SCHWARTZ DESIRE

2) Family number: 1253345 (US3944698A)

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Title: GYPSUM WALLBOARD AND PROCESS FOR MAKING SAME

Abstract: Source: US3944698A A specially prepared fiber reinforcement and improved gypsum wallboard are disclosed. The fiber reinforcement includes a multiplicity of relatively long fibers which are disposed at the interface of the core and cover sheets of the wallboard and are adhesively bonded to the cover sheets and incorporated predominantly into the portion of the core immediately adjacent to the cover sheets.

Classifications:

International (IPC 8-9): B28B1/52 B28B19/00 B29C70/16
B29C70/20 B32B3/18 E04C2/04 E04C2/06 (Advanced/Invention);
B28B1/52 B28B19/00 B29C70/10 B32B3/18 E04C2/04
E04C2/06 (Core/Invention)

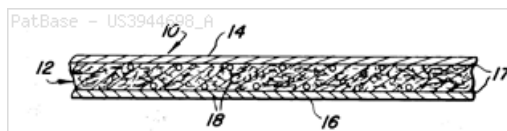
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E04C2/043 E04C2/06 Y10T428/249932 Y10T428/249968 Y10T428/31982

European: B28B1/52C B28B1/52F B28B19/00K B29C70/16 B29C70/20A E04C2/04C E04C2/06

US: 156/42 428/219 428/294.7 428/312.4 428/535 428/703



Family:

Publication number	Publication date	Application number	Application date
CA1034859 A1	19780718	CA19740210877	19741007
US3944698 A	19760316	US19730415669	19731114

Priority:

US19730415669 19731114

Probable Assignee: UNITED STATES GYPSUM CO

Assignee(s): (std): UNITED STATES GYPSUM CO

Assignee(s): UNITED STATES GYPSUM COMPANY ; DIERKS ROBERT P ; RILLIE ROBERT J

Inventor(s): (std): RILLIE ROBERT J ; DIERKS ROBERT P

3) Family number: 15329056 (US5558710A)

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Title: GYPSUM/CELLULOSIC FIBER ACOUSTICAL TILE COMPOSITION

Abstract: Source: US5558710A An acoustical tile composition based on a gypsum/cellulosic fiber composition which can replace all or a portion of the mineral wool normally present in acoustical ceiling tiles. The gypsum/cellulosic fiber composition is combined with a lightweight aggregate material and a binder to form a composition which is used in a water-felting process to manufacture acoustical ceiling tiles and panels. The preferred source of the cellulosic fiber is a composite gypsum/cellulose fiber material which is prepared by mixing the gypsum and cellulosic fiber material with sufficient water to form a dilute slurry which is then heated under pressure to calcine the gypsum, converting it to an alpha calcium sulfate hemihydrate. The resulting composite material comprises cellulosic fibers physically interlocked with calcium sulfate crystals. Another source of both gypsum and cellulosic fibers is waste (scrap) gypsum wallboard. Expanded perlite is the preferred lightweight aggregate material.

Classifications:

International (IPC 8-9): B28B1/52 B32B13/02 B32B19/00
B32B23/02 B32B5/18 B32B9/00 B32B9/02 C04B11/024 C04B14/18
C04B14/36 C04B14/38 C04B16/02 C04B16/06 C04B18/02
C04B18/16 C04B26/28 C04B28/14 C08L3/02 C08L97/00 C11B11/00
E04B1/74 E04B1/86 (Advanced/Invention);
B32B19/00 B32B5/18 B32B9/00 B32B9/02
C04B11/00 (Advanced/Non-invention);
B32B13/00 B32B19/00 B32B23/00 B32B5/18 B32B9/00 B32B9/02
C04B11/00 C04B14/02 C04B14/38 C04B16/00 C04B18/00
C04B18/04 C04B26/00 C04B28/00 E04B1/74
E04B1/84 (Core/Invention);
B28B1/52 (Core/Non-invention)

International (IPC 1-7): B28B1/52 B32B13/02 B32B19/00
B32B23/02 B32B5/18 B32B9/00 B32B9/02 C04B11/00 C04B11/024
C04B14/00 C04B14/18 C04B14/36 C04B16/02 C04B16/06
C04B18/16 C04B18/24 C04B22/00 C04B24/00 C04B26/00
C04B26/28 C04B28/14 C08L3/02 C08L97/00 E04B1/62 E04B1/74
E04B1/84 E04B1/86 E04B9/04 E04C2/06 E04F13/16

CPC: Y10S106/02 Y02W30/95 Y02W30/97 C04B28/146 C04B18/021
C04B26/285 C04B2111/125 C04B2111/52

European: C04B18/02B C04B26/28B C04B28/14H2 M04B111/12B
M04B111/52

US: 106/122 106/772 106/779 106/780 106/DIG.2 252/62 428/703

END

Family:

Publication number	Publication date	Application number	Application date
AT452112 E	20100115	AT19950305416T	19950802
AU199510053 A1	19960222	AU19950010053	19950106
AU199531547 A1	19960307	AU19950031547	19950803
AU682230 B2	19970925	AU19950010053	19950106
BRPI9508984 A	19971230	BR1995PI08984	19950803
CA2139368 AA	19960209	CA19942139368	19941230
CA2139368 C	20050614	CA19942139368	19941230
CN1054590 C	20000719	CN19951094531	19950803
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CZ291585 B6	20030416	CZ19970000377	19950803
CZ9700377 A3	19970716	CZ19970000377	19950803
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EP0697382 B1	20091216	EP19950305416	19950802
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FI970533 A0	19970207	FI19970000533	19970207
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JP8066985 A2	19960312	JP19950155066	19950519
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PL318585 A1	19970623	PL19950318585	19950803
RO121110 B1	20061229	RO19970000253	19950803
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TH23385 A	19970210	TH19951001931	19950807
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TR9500972 A1	19961021	TR19950000972	19950808
TR960790 A1	19961021	TR19950000972	19950808
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WO9605149 A1	19960222	WO1995US09703	19950803
ZA9506644 A	19960418	ZA19950006644	19950808

Priority:

CA19942139368 19941230 US19940287392 19940808 WO1995US09703 19950803

Probable Assignee: USG INTERIORS LLC

Assignee(s): (std): USG INTERIORS ; USG INTERIORS INC

Assignee(s): USG INTERIORS INC US ; USG INTERIORS LLC ; USG Interiors Inc. ; BAIG MIRZA A ; U S G INTERIOR ZU INC

Inventor(s): (std): BAIG M A ; BAIG MIRZA A ; GAIG MIRZA A ; M A BAIG ; MAAZA EI BEIN ; MIRZA A BAIG ; MIRZA AGAIG ; PAIGE MIRZA A

Inventor(s): Baig ; MIRZA A GAIG ; Mirza A.

Agent(s): GRIFFITH HACK; MACRAE AND CO; JOHNSON TERENCE LESLIE; REINHOLD COHN AND PARTNERS

Designated states: AM AT AU 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 LT LU LV MC MD MG ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN SZ TD TG TJ TM TT UA UG UZ VN

4) Family number: 23254016 (JP2002070239A)

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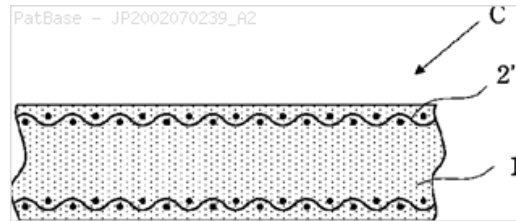
Title: GYPSUM BUILDING MATERIAL SUITABLE FOR BEARING WALL

Abstract: Source: JP2002070239A PROBLEM TO BE SOLVED: To provide a gypsum building material having inside face improved in strength as a surface material for bearing wall not generating harmful volatile substances, maintaining the excellent performances required for the gypsum building material such as fireproof performance, workability, dimensional stability, economical efficiency, habitability and the like, in particular to provide a gypsum building material for interior finish of which surface hardness is enhanced.SOLUTION: The gypsum building material suitable for the bearing wall in which a core material having an plate-like body is blended with gypsum as a main material, glass fiber and starch so as to form the gypsum building material.

Classifications:

International (IPC 8-9): B32B13/02 B32B13/08 C04B28/14 E04C2/26 (Advanced/Invention); C04B14/42 C04B24/00 C04B24/26 C04B24/38 C04B24/42 (Advanced/Non-invention); B32B13/00 C04B28/00 E04C2/26 (Core/Invention); C04B14/38 C04B24/00 (Core/Non-invention)

International (IPC 1-7): B32B13/02 B32B13/08 C04B14/42 C04B24/26 C04B24/38 C04B28/14 E04C2/26



Family:

Publication number	Publication date	Application number	Application date
JP2002070239 A2	20020308	JP20000256244	20000825
JP2009299460 A2	20091224	JP20090163670	20090710
JP5642948 B2	20141217	JP20090163670	20090710

Priority:

JP20000256244 20000825 JP20090163670 20090710

Probable Assignee: YOSHINO GYPSUM CO

Assignee(s): (std): YOSHINO GYPSUM CO

Assignee(s): YOSHINO GYPSUM CO LTD

Inventor(s): (std): FUJIKAWA KOZO ; SEKI MASANOBU ; YAMASHITA TAKUJI

5) Family number: 31000306 (US2004231916A)

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Title: ACOUSTICAL PANEL COMPRISING INTERLOCKING MATRIX OF SET GYPSUM AND METHOD FOR MAKING SAME

Abstract: Source: US2004231916A An acoustical panel comprising a continuous phase of an interlocking set gypsum matrix and a method of preparing an acoustical panel are disclosed.

Classifications:

International (IPC 8-9): B28B1/30 B28B19/00 B28B3/12 B28B5/02 B32B13/02 B32B13/04 B32B13/06 B32B27/12 B32B5/18 C04B11/52 C04B28/14 C04B38/02 C04B40/00 D21J1/16 E04B1/82 E04B1/84 E04B1/86 E04C2/04 G10K11/16

G10K11/162 (Advanced/Invention); C04B11/52 C04B16/02 C04B16/08 C04B18/24 C04B22/14 C04B24/22 C04B24/24 C04B24/26 C04B24/28 C04B24/30 C04B24/32 C04B24/38 E04B1/74 E04B1/76 E04B1/84 (Advanced/Non-invention); B32B13/00 (Core/Invention); E04C2/00 (Core/Non-invention);

C04B E04C (Subclass/Non-invention)

International (IPC 1-7): C04B11/52 C04B28/14 C04B40/00 E04B1/76 E04B1/82 E04B1/84 E04B1/86 E04B2/02 E04C2/04 F01N1/00 G01K1/00

CPC: Y10T428/24994 Y10T442/133 E04B1/84 B28B5/027 B28B19/0092 C04B28/14 C04B211/40 C04B211/52 E04B2001/742 E04B2001/7691 E04B2001/8457 E04B2001/8461 E04C2/043 Y02W30/97 E04C2/04

European: B28B19/00K B28B5/02C2 C04B28/14 E04B1/84 E04C2/04C M04B111/40 M04B111/52 P04B1/74M P04B1/76R P04B1/84S P04B1/84S2

US: 156/39 181/290 181/294 181/294S 181/296 428/297.4 442/20

Family:

Publication number	Publication date	Application number	Application date
AU2004221854 AA	20040930	AU20040221854	20040319
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BRPI0408504 A	20060307	BR2004PI08504	20040319
CA2516084 AA	20050812	CA20042516084	20040319
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CR7983 A	20060619	CR20050007983	20050908
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KR20050116378 A	20051212	KR20057017423	20040319
MXPA05009968 A1	20051104	MX2005PA09968	20040319
NZ541812 A	20070531	NZ20040541812	20040319
RU2005132226 A	20060227	RU20050132226	20040319
RU2360883 C2	20090710	RU20050132226	20040319
UA88764 C2	20091125	UA20050009807	20040319
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US2008156581 AA	20080703	US20080049976	20080317
US7364015 BB	20080429	US20040804359	20040319
US7851057 BB	20101214	US20080049976	20080317
VN8933 A1	20110127	VN20050001532	20051019
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WO04083146 A3	20050310	WO2004US08538	20040319
ZA200506518 A	20060426	ZA20050006518	20050815

Priority:

US20030455782P 20030319 US20040804359 20040319 US20080049976 20080317
WO2004US08538 20040319

Probable Assignee: UNITED STATES GYPSUM CO

Assignee(s): (std): DOMBECK RUSSELL A ; ENGLERT MARK H ; FULTS THERESE A ; PETERSEN BRUCE L ; JUNAJTED STEJTS DZHIPSUM KOMPA ; UNITED STATES GYPSUM CO ; STEVENS RICHARD B ; SUCECH STEVEN W ; PORTER MICHAEL J

Assignee(s): UNITED STATE S GYPSUM CO ; UNITED STATES GYPSUM COMPANY ; JUNAJTED STEJTS DZHIPSUM KOMPANI

Inventor(s): (std): BRUCE L PETERSEN ; DOMBECK RUSSEL A ; DOMBECK RUSSELL A ; ENGLERT MARK H ; ENGLERT MARK H STEVENS RICHARD ; FULTS THERESE A ; MARK H ENGLERT ; MICHAEL J PORTER ; PORTER MICHAEL J ; RICHARD B STEVENS ; RUSSELL A DOMBECK ; STEVEN W SUCECH ; STEVENS RICHARD B ; THERESE A FULTS ; SUSEK STIVEN V ; STIVENS RICHARD B ; PORTER MAJKL DZH ; PETERSEN BRJUS L ; FULTS TEREZA A ; EHNGLERT MARK KH ; DOMBEK RASSEL A ; PETERSEN BRUCE L ; SUCECH STEVEN W ; MARK H ENGLERT RICHARD B STEVE

Inventor(s): RUSSELL A DOMB ; MARK H ENGLERT RICHARD B STEVENS STEVEN W... ; MARK H ENGLERT RICHARD B STEVENS STEVEN W SUCECH THERESE A FULTS MICHAEL J PORTER BRUCE L PETERSEN RUSSELL A DOMB ; ENGLERT MARK H STEVENS RICHARD B SUCECH STEVEN W F

Agent(s): GRAFFITH HACK; MACRAE AND CO; ALESSANDRI; REINHOLD COHN AND PARTNERS; LEYDIG VOIT AND MAYER LTD; JANC I DAVID F; SAHU PRADIP K; DAVID F; PRADIP K; PHILIP T

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

6) Family number: 31429421 (US2004266304A)

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Title: NON-WOVEN GLASS FIBER MAT FACED GYPSUM BOARD AND PROCESS OF MANUFACTURE

Abstract: Source: US2004266304A A gypsum board comprises a set gypsum layer having a first face and a second face. A fibrous mat is affixed to at least one of the faces. The mat comprises a non-woven web bonded together with a resinous binder. The web comprises a blend of a major portion composed of chopped continuous glass fibers having an average fiber diameter ranging from about 8 to 17 mum and a minor portion composed of fine staple fibers having an average fiber diameter of less than about 5.5 mum, the minor portion comprising about 1-30 percent of the dry weight of the web. The board is exceedingly durable. It has a smooth surface that is readily finished in an aesthetically pleasing way, using paint or other wall covering systems.

Classifications:

International (IPC 8-9): B28B19/00 B28B23/00 B28C1/00 B29C65/00 B32B13/00 B32B13/14 B32B17/00 B32B17/04 B32B3/18 B32B37/00 B32B5/18 C04B28/02 C04B28/14 C04B28/16 D04H1/00 D04H13/00 D04H3/00 D04H5/00 E04C2/04 (Advanced/Invention); B28B19/00 B28B23/00 B28C1/00 B32B13/00 B32B17/00 B32B17/04 C04B28/00 E04C2/04 (Core/Invention)

International (IPC 1-7): B28C1/00 B32B13/00 B32B13/02 B32B13/14 B32B17/00 B32B31/00 B32B31/06 D04H1/00 D04H13/00 D04H3/00 D04H5/00

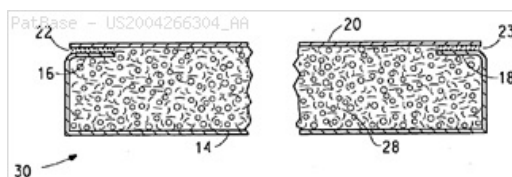
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European: B28B19/00K B28B23/00A B32B13/14 B32B17/04 C04B28/02 C04B28/14H C04B28/16 E04C2/04C M04B111/00T6B4 M04B111/28

US: 156/39 156/39S 156/40 156/42 442/331 442/342 442/342S 442/343 442/343S 442/348 442/348S 442/374 442/386 442/386P 442/415 442/415S 442/416 442/416S

Family:

Publication number	Publication date	Application number	Application date
CA2529627 AA	20051215	CA20042529627	20040607
CA2529627 C	20110503	CA20042529627	20040607
EP1644167 A2	20060412	EP20040754709	20040607
EP1644167 A4	20080521	EP20040754709	20040607
RU2006102359 A	20060627	RU20060102359	20040607
RU2348532 C2	20090310	RU20060102359	20040607
US2004266304 AA	20041230	US20030608790	20030627
US7842629 BB	20101130	US20030608790	20030627
WO05005117 A2	20050120	WO2004US18178	20040607



Priority:

US20030608790 20030627 WO2004US18178 20040607

Probable Assignee: JOHNS MANVILLE INT INC**Assignee(s):** (std): DZHONS MEHNVILL INTERNEHSHNL I ; JOHNS MANVILLE ; JOHNS MANVILLE INT INC**Assignee(s):** JOHNS MANVILLE INTERNATIONAL INC ; JOHNS MANVILLE INT ; DZHONS MEHNVILL INTERNEHSHNL INK ; JAFFEE ALAN MICHAEL**Inventor(s):** (std): JAFFEE ALAN MICHAEL ; DZHEHFFI ALAN MAJKL**Agent(s):** MACRAE AND CO; ROBERT D**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**7) Family number: 32450133** (US2005263925A)

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Title: FIRE-RESISTANT GYPSUM**Abstract:** Source: US2005263925A An improved, fire-resistant, set gypsum composition contains set calcium sulfate dihydrate as the major ingredient and a reinforcing ingredient of resilient, flexible, boron-free glass fibers. Continuous filament forming glass compositions with a softening point preferably greater than about 1580 degrees Fahrenheit (about 860 degrees centigrade) and more preferably greater than about 1681 degrees Fahrenheit (about 916 degrees centigrade) may be used. The fibers typically are distributed as their separate constituent individual glass filaments uniformly throughout the set calcium sulfate dihydrate.**Classifications:****International (IPC 8-9):** B27N3/00 C03C13/00 C04B14/42 C04B28/14 D04H1/00 E04C2/04 (Advanced/Invention); B27N3/00 C03C13/00 C04B14/38 C04B28/00 D04H1/00 E04C2/04 (Core/Invention)**International (IPC 1-7):** B27N3/00 D04H1/00**CPC:** C03C13/001 C04B14/42 C04B28/14 C04B2111/00413 C04B2111/0062 C04B2111/00629 C04B2111/28 E04C2/043**European:** C03C13/00B C04B14/42 C04B28/14 E04C2/04C M04B111/00P35 M04B111/00T6B M04B111/00T6B4 M04B111/28**US:** 106/772 106/772S 264/109 264/109P**Family:**

Publication number	Publication date	Application number	Application date
US2005263925 AA	20051201	US20040854913	20040527

Priority:

US20040854913 20040527

Probable Assignee: OWENS CORNING FIBERGLAS TECHNOLOGY INC**Assignee(s):** (std): HESELTINE ROBERT W ; MORELISSEN J H B**Assignee(s):** OWENS CORNING FIBERGLAS TECHNOLOGY INC**Inventor(s):** (std): HESELTINE ROBERT W ; MORELISSEN J H B**Inventor(s):** MORELISSEN J HB ; MORELISSEN J ; HESELTINE ROBERT**Agent(s):** OWENS CORNING**8) Family number: 32680366** (US2006068186A)

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Title: NEW GYPSUM BOARD AND SYSTEMS COMPRISING IT**Abstract:** Source: US2006068186A The invention relates to a new plasterboard having a facer comprising two plies, and uses of such plasterboards in EIS or EFS.**Classifications:****International (IPC 8-9):** B32B13/00 B32B13/02 B32B13/14 B32B17/02 B32B5/24 C04B28/14 E04B2/92 E04C2/04 E04C2/284 E04C2/288 (Advanced/Invention);

B32B13/14 (Advanced/Non-invention);

B32B13/00 B32B5/22 E04B2/90 E04C2/04 E04C2/26 (Core/Invention)

International (IPC 1-7): B32B13/14 B32B5/24 E04C2/04 E04C2/284 E04C2/288**CPC:** Y10T442/2221 Y10T442/2238 Y10T442/2631 Y10T442/659 Y10T442/665 Y10T442/697 Y10T442/698 Y10T442/699

B32B5/022 B32B13/02 B32B2250/03 B32B2250/40 B32B2260/023 B32B2260/046 B32B2262/02 B32B2262/062 B32B2262/14

B32B2307/306 B32B2307/7265 B32B2307/73 B32B2419/04 B32B2439/70 B32B2607/02 E04C2/043 Y10T428/249932

B32B17/02 C04B28/14 B32B13/14

European: B32B13/02 B32B13/14 B32B5/02A E04C2/04C L32B250/03 L32B250/40 L32B260/02A1 L32B260/04C

L32B262/02 L32B262/06A L32B262/14 L32B307/306 L32B307/726B L32B307/730 L32B419/04 L32B439/70 L32B607/02

US: 428/294.7 428/294.700P 428/703 428/703S 442/136 442/381 442/386 442/415 442/416 442/417 442/86 442/88**Family:**

Publication number	Publication date	Application number	Application date
AU2005279310 AA	20060309	AU20050279310	20050830
AU2005279310 BB	20110224	AU20050279310	20050830
CA2578161 AA	20070226	CA20052578161	20050830
CA2578161 C	20101123	CA20052578161	20050830
CN101010470 A	20070801	CN200580029402	20050830
EP1809830 A1	20070725	EP20050791002	20050830
KR20060021259 A	20060307	KR20040104297	20041210
KR20130077851 A	20130709	KR20130055840	20130516
MX2007002376 A1	20070511	MX20070002376	20050830
MY150284 A	20131231	MY20050003779	20050812
US2006068186 AA	20060330	US20040943949	20040920
US7700505 BB	20100420	US20040943949	20040920

Priority:

EP20040292115 20040901 EP20050791002 20050830 WO2005EP10296 20050830

Probable Assignee: CONTINENTAL BUILDING PRODUCTS OPERATING CO LLC F K A CONTINENTAL BUILDING PRODUCTS LLC**Assignee(s):** (std): LAFARGE PLATRES ; LAFARGE SA ; BUTLER STEVEN ; BUTLER STEVEN R ; LECLERCQ CLAUDE**Assignee(s):** CONTINENTAL BUILDING PRODUCTS CANADA INC ; CONTINENTAL BUILDING PRODUCTS LLC ; CONTINENTAL BUILDING PRODUCTS OPERATING CO LLC ; CONTINENTAL BUILDING PRODUCTS OPERATING CO LLC F K A CONTINENTAL BUILDING PRODUCTS LLC ; LAFARGE ; LAFARGE NORTH AMERICA INC ; LAFARGE GYPSUM INT ; CREDIT SUISSE CAYMAN ISLANDS BRANCH FIRST LIEN ADMINISTRATIVE AGENT AG AS ; CREDIT SUISSE CAYMAN ISLANDS BRANCH SECOND LIEN ADMINISTRATIVE AGENT AG AS ; LAFARGE CANADA INC ; KNAUF GIPS KG ; CREDIT SUISSE ADMINISTRATIVE AGENT AG AS**Inventor(s):** (std): BUTLER STEVEN ; BUTLER STEVEN R ; BUTLER STEVEN ROY ; LECLERCQ CLAUDE ; STEVEN LECLERCQ CLAUDE BUTLER**Inventor(s):** STEVEN ROY BUTLER ; LECLERCQ CLAUDE BUTLER STEVEN ; STEVEN BUTLER ; CLAUDE LECLERCQ**Agent(s):** SPRUSON AND FERGUSON; PERLEY ROBERTSON HILL AND MCDUGALL LLP; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; BUCHANAN INGERSOLL PC, (INCLUDING BURNS DOANE SWECKER AND MATHIS); BUCHANAN INGERSOLL PC INCLUDING BURNS DOANE SWECKER AND MATHIS; BUCHANAN INGERSOLL AND ROONEY PC**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 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**9) Family number: 33992676 (US2006278132A)**

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Title: METHOD OF IMPROVING DISPERSANT EFFICACY IN MAKING GYPSUM PRODUCTS**Abstract:** Source: US2006278132A 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 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 C04B11/40 C04B14/28 C04B22/14 C04B24/16 C04B24/38 C04B28/14 C04B38/10 (Advanced/Non-invention); B23B13/00 B23B37/00 B28B3/00 B32B1/00 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 (Subclass/Invention)

International (IPC 1-7): B23B13/00 B23B37/00 B32B13/00 B32B13/02 B32B13/04 B32B13/08 B32B27/02 B32B29/00 B32B3/26 C04B 11/00 C04B 28/00 C04B 28/14 C04B11/00 C04B16/08 C04B28/14 C04B9/00 E04C2/04 E04F13/02

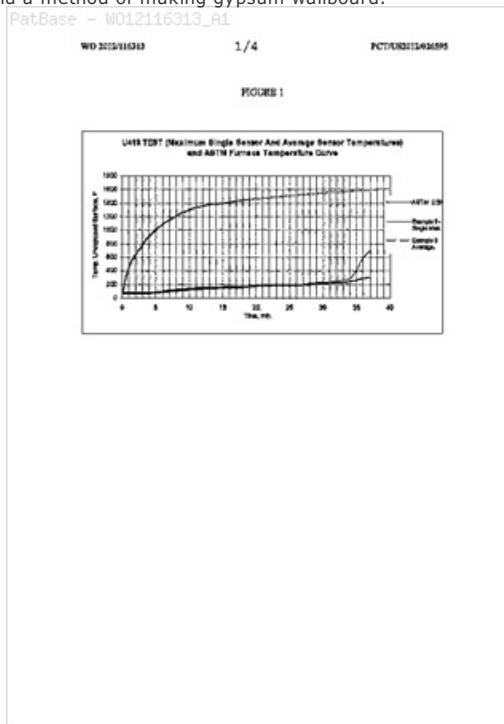
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European: B32B13/02 B32B13/04 B32B13/08 B32B13/14 B32B17/02 B32B27/02 B32B29/00 B32B3/26 B32B5/02 C04B28/14 C04B28/14H L32B250/40 L32B307/306 L32B307/536 L32B307/546 L32B307/582B L32B419/04 L32B607/00 M04B103/00W8 M04B111/00T6B M04B111/34 M04B111/40 M04B201/20

US: 106/674 106/680 106/680S 106/691 106/711 106/772 106/778 106/778S 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
AR054389 AA	20070620	AR2006P102433	20060609
AR063772 AA	20090218	AR2007P104860	20071031
AR068668 AA	20091125	AR2008P104345	20081003
AR069160 AA	20091230	AR2008P104799	20081024



AR074030 AA	20101222	AR2007P104327	20070928
AR085491 AA	20131009	AR2012P100628	20120224
AR095695 AB	20151104	AR2014P101307	20140320
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AR095906 AB	20151125	AR2014P101381	20140326
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AU2006258110 AA	20061221	AU20060258110	20060607
AU2007302768 AA	20080410	AU20070302768	20070829
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AU2014100053 AD	20140213	AU20140100053	20140123
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AU2014100494 AD	20140612	AU20140100494	20140513
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AU2015200194 BB	20161117	AU20150200194	20150116
AU2016202650 AA	20160519	AU20160202650	20160427
AU2016250371 AA	20161117	AU20160250371	20161026
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CN103596901 A	20140219	CN201280017800	20120224
CN104947843 A	20150930	CN201510248771	20071009
CN106240080 A	20161221	CN201610622411	20120224
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EP1893374 A4	20161214	EP20060772613	20060608
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EP2081763 A1	20090729	EP20070837466	20070829
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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 NZ 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

10) Family number: 42616533 (US2008299413A)

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Title: ACOUSTICAL GYPSUM BOARD PANEL AND METHOD OF MAKING IT

Abstract: Source: US2008299413A The acoustical product of the present invention comprises an acoustical product including

a matrix of calcium sulfate dihydrate crystals and expanded perlite distributed throughout the matrix. The expanded perlite has a particle size distribution with at least 10 percent of the perlite having a particle diameter of 700 microns or more, and the amount of expanded perlite to calcium sulfate dihydrate is about 35 percent to about 75 percent by weight, based upon the dry weight of the calcium sulfate dihydrate. A dispersing agent and glass fibers having a particle length of about ¼ inch to about 1 inch are dispersed throughout the gypsum matrix.

Classifications:

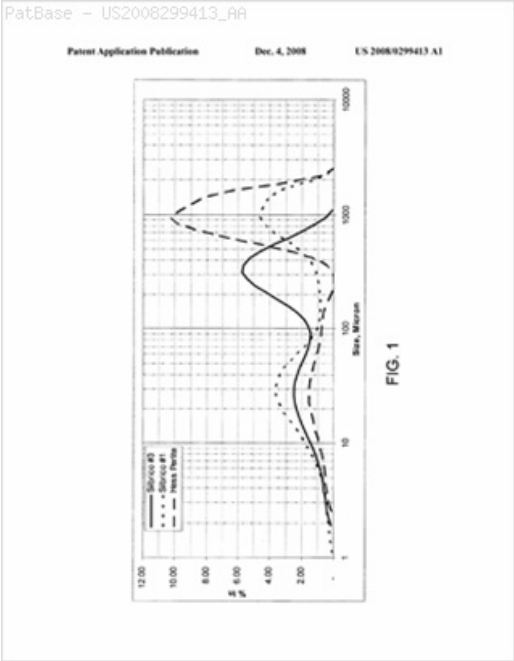
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CPC: Y10T442/20 Y10T442/2738 Y10T442/361 Y10T442/665 B28B19/0092 B32B2305/30 B32B2307/10 B32B2315/18 B32B2607/00 C04B14/185 C04B28/145 C04B2111/0062 C04B2111/52

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Family:

Publication number	Publication date	Application number	Application date
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US20070807980 20070531

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