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Search roof* or ceiling or tile* (Results 1000000)

3:

Search PVC and kevlar (Results 3855)

4:

Search 3 and 4 (Results 750)

5:

Search zinc and borate (Results 54096)

6:

Search 5 and 6 (Results 48)

7:

Search kevlar (Results 36474)

8:

Search 3 and 8 (Results 3974)

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Search shingle* and kevlar (Results 231)

15:

Search pvc (Results 245829)

16:

Search 15 and 16 (Results 70)

17:

Search 6 and 17 (Results 9)

18:

1) Family number: 11882052 (US5635125A)

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Title: METHOD FOR FORMING SIMULATED SHAKE SHINGLES

Abstract: An artificial shake type shingle includes of a molded composite of wood sawdust particles and ground-up recycled polyvinyl chloride (PVC) particles. The PVC particles are preferably formed from recycled water or garden hose, preferably those with reinforcing fibers therein, which composition helps to attain a strong building material product.

Classifications:

International (IPC 8-9): B29C45/00 E04D1/20

E04D1/22 (Advanced/Invention);

B29C45/00 E04D1/12 (Core/Invention)

International (IPC 1-7): B29C45/00 E04D1/00

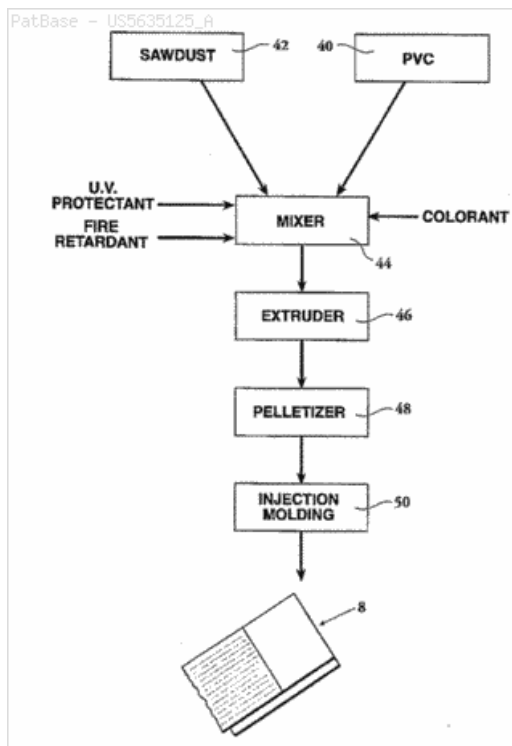
CPC: B29C45/0005 B29C45/0013 B29K2511/14 B29L2031/104

E04D1/20 E04D1/22 Y10S264/92

European: B29C45/00D B29C45/00E E04D1/20 E04D1/22

L29K511/14 L29L31/10C

US: 264/122 264/328.18 264/920 264/DIG.69 52/518 52/533 52/539 52/555



Family:

Publication number	Publication date	Application number	Application date
US5635125 A	19970603	US19950394371	19950224
US5992116 A	19991130	US19970868635	19970602

Priority:

US19950394371 19950224 US19970868635 19970602

Probable Assignee: RE NEW WOOD INC

Assignee(s): (std): RE NEW WOOD INC

Inventor(s): (std): TERNES KIMBERLY K ; TERNES THOMAS J ; TERNES THOMAS JEFFREY ; WEST BARRY L

2) Family number: 28163528 (US2002009622A)

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Title: SPRAYABLE PHOSPHATE CEMENTITIOUS COATINGS AND A METHOD AND APPARATUS FOR THE PRODUCTION THEREOF

Abstract: A sprayed-on phosphate cement coating formed from the combination and reaction of a phosphoric acid solution and a base metal solution. The acid solution and base solution may be intermixed prior to spraying, during spraying, or on a substrate. The curing reaction rate of the phosphate cement coating and its final physical properties may be controlled by adding various retardants, accelerants, reducers, wetting agents, superplasticizers, buffers, water reducers, adhesive agents, hardening agents, and/or sequestrants to the precursor solutions. The curing rate and properties of the cement coating may be further controlled by adjusting the temperature of the precursor solutions and/or the target substrate.

Classifications:

International (IPC 8-9): B32B13/00 C04B28/34 C04B41/50 C04B41/52 C04B41/67 C04B41/70 C09D7/00 (Advanced/Invention)
International (IPC 1-7): B05D1/02 B05D1/36 B05D3/02 B32B13/00
CPC: Y02W30/92 Y02W30/94 C04B41/009 B32B13/00 C04B28/34 C04B41/5092 C04B41/52 C04B41/67 C04B41/70 C04B2111/00577 C04B2111/00637 C04B2111/72 C09D7/00
European: B32B13/00 C04B28/34 C04B41/00V C04B41/50T34 C04B41/52 C04B41/67 C04B41/70 C09D7/00 M04B111/00T2Y M04B111/00T8 M04B111/72
US: 106/690 106/691 427/136 427/140 427/314 427/376.1 427/402 427/403 427/421 427/422 427/426 427/427 427/427.3 427/427.7 427/458 428/688 428/689 428/689S 428/703 428/703P 428/704 428/704S

PatBase - US2002009622_AA



Family:

Publication number	Publication date	Application number	Application date
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US6458423 BA	20021001	US20000631445	20000802
US6783799 BA	20040831	US20030446743	20030528

Priority:

US19990146912P 19990803 US20000631445 20000802 US20010906933 20010717
 US20030446743 20030528

Probable Assignee: GOODSON JACQUELINE K

Assignee(s): GOODSON DAVID M ; GOODSON JACQUELINE K

Inventor(s): (std): GOODSON DAVID M

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);

C08F10/00 C08F10/06 C08F110/06 C08F210/04 C08F210/06

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C08F4/6592 C08L51/06 C08L57/02 (Advanced/Non-invention);

B32B27/32 C08F10/00 C08F210/00 C08F8/00 C08K5/00 C08L23/00

C08L51/00 C08L91/00 C09D123/00 C09J123/00 C09J151/00

D01F6/28 D01F6/46 (Core/Invention);

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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C09J155/02 D21H17/35 D21H21/18

European: C08F10/00 C08F10/04 C08F10/06 C08F210/06 C08F255/00 C08F255/02 C08F297/08 C08F8/00 C08L23/10

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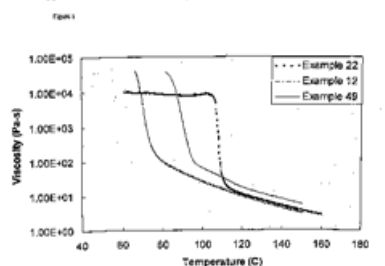
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Patent Application Publication Jul. 1, 2004 Sheet 1 of 10 US 2004/0127614 A1



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Priority:

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Probable Assignee: EXXONMOBIL CHEMICAL PATENTS INC

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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 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: ANTIFUNGAL PAINTS AND COATINGS

Abstract: Antifungal and antibacterial peptides, polypeptides and proteins as antifungal additives for paint and other coatings are disclosed, along with antifungal compositions, and coated surfaces with antifungal properties. Methods of using the coatings for treating and/or inhibiting growth of mold, mildew and other fungi and bacteria on objects such as building materials that are susceptible to such infestation are also disclosed.

Classifications:

International (IPC 8-9): A01N25/00 A01N33/08 A01N37/18 A01N37/44 A01N37/46 A01N63/00 A01N63/02 A01P1/00 A01P3/00 A61F13/00 A61K31/74 A61K38/00 A61K38/08 A61K38/10 A61K47/48 B05D3/00 B05D5/00 B08B3/00 B32B3/12 B32B5/02 B65D81/00 B65D85/84 C07K14/00 C07K14/435 C07K17/00 C07K2/00 C07K5/08 C07K5/10 C07K7/00 C07K7/06 C07K7/08 C08G63/91 C08L89/00 C09D133/00 C09D189/00 C09D201/00 C09D5/14 C09D5/16 C09D7/00 C09D7/12 C09J11/08 C12N11/16 C12N9/00 C12N9/16 C12N9/18 C12N9/20 C12N9/48 C12N9/76 C12N9/78 C12Q1/00 C12Q1/34 C12Q1/527 C12S9/00 (Advanced/Invention); A01N33/00 A01N37/18 A01N37/44 A01N63/00 A01P1/00 A01P3/00 A61F13/00 A61K47/48 B05D3/00 C07K14/00 C07K5/00 C07K7/00 C08G63/00 C08L89/00 C09D201/00 C09D5/14 C09D5/16 C09D7/12 C09J11/00 C12N11/00 C12N9/00 C12N9/16 C12N9/48 C12N9/76 C12N9/78 (Core/Invention); A01N C09D (Subclass/Invention)

International (IPC 1-7): A61K38/00 C08L89/00 C09D201/00 C09D5/14 C09D5/16 **CPC:** A01N37/46 C07K14/4723 A01N63/00 B08B17/02 C07K7/06 C07K7/08 C09D5/1693 C09D189/00 C12Q1/34 C12Q1/44 C12Q1/61 C09D5/1637 Y10T428/24149 Y10T442/2279 C09D5/1668 C09D5/008 D06M16/003 C09D7/63 C09D7/70 C09D7/65 C09D5/1625 A01N63/02 C08L89/00 C09D5/14

European: A01N37/46 A01N63/00 A01N63/02 B08B17/02 C07K7/06 C07K7/08 C09D5/00F C09D5/14 C09D5/16C3K C09D5/16C7 C09D5/16R C09D7/12D4 C09D7/12M C09D7/12S C12Q1/34 C12Q1/44 C12Q1/61 D06M16/00B M08L89/00

US: 106/124.1 106/124.100S 106/15.05 106/15.050P 106/15.050S 106/18.32 106/18.320P 106/18.320P 106/18.320S 106/2 106/2P 106/4 106/4S 106/501.1 106/501.100S 134/26 134/26P 206/216 206/216S 206/524.1 206/524.100S 222/1 222/1S 424/404 424/409 424/422 424/422P 424/426 424/426P 424/78.09 424/94.2 424/94.200P 424/94.61 424/94.64 427/331 427/331S 427/352 427/352S 427/414 427/414P 428/116 428/116S 435/174 435/174S 435/18 435/183 435/183S 435/18P 435/196 435/196S 435/197 435/197S 435/198 435/198S 435/212 435/212S 435/213 435/213S 435/227 435/227S 435/264 435/264S 435/4 435/4S 442/93 442/93S 514/1.1 514/1.100P 514/12 514/16 514/17 514/18 514/2 514/2.4 514/2.400S 514/21.4 514/21.5 514/21.8 514/3.3 514/3.300P 514/3.300S 521/55 521/55P 523/122 523/122S 524/17 524/17S 524/590 525/54.1 525/54.100S 530/324 530/324S 530/326 530/326S 530/327 530/327S 530/329 530/329S 530/330 530/330S 530/331 530/331S 530/350 530/350S

Family:

Publication number	Publication date	Application number	Application date
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PatBase - W005007758_A2

WO 200607758

PC1/US2004021718

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<110> Reactive Surfaces, Ltd.

<120> Antifungal Paints and Coatings

<130> RACT-80401

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<161> 2003-07-03

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1/17

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WO11034931 A3	20110811	WO2010US48946	20100915

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 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 YU ZA ZM ZW

5) Family number: 36001246 (US2007207186A)

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Title: TEAR AND ABRASION RESISTANT EXPANDED MATERIAL AND REINFORCEMENT

Abstract: The present invention is a more durable expanded material that enables thinner wall thicknesses and a more flexible reinforcement suitable for stenting. The present invention is especially useful in the construction of grafts, stents, and stent-grafts which are used, for example, in repairing or replacing blood vessels that are narrowed or occluded by disease, aneurismal blood vessels, or other medical treatments. The inventive material and configurations allow expansion or contraction in size or adjustment in size in an incremental manner so that the optimum size, shape, and fit with other objects can be obtained. The present invention is also optionally capable of more accurately delivering one or more active ingredients such as drugs over longer periods of time. The present invention optionally includes surface modifications and additives that increase the surface adhesion of active ingredients, coatings, or combinations thereof. Finally, the present invention optionally includes growing cells on the inventive material so that the expanded material, reinforcement, or combinations thereof are useful, for example, in producing lab-grown blood vessels or organs.

Classifications:

International (IPC 8-9): A61F2/06 (Advanced/Invention);

A61F2/94 (Advanced/Non-invention);

A61F2/06 (Core/Invention);

A61F2/82 (Core/Non-invention)

CPC: A61F2/91 A61F2/07 A61F2/915 A61F2002/072 A61F2002/075

A61F2002/91533 A61F2002/9155 A61F2002/91558 A61F2250/0068

A61L31/048 A61L31/10 A61L31/146 A61L31/16 A61L2300/00

B29C55/26 A61F2/90 A61F2210/0076 A61F2220/0008

A61F2220/0025 A61F2220/0041 A61F2220/005 A61F2220/0058

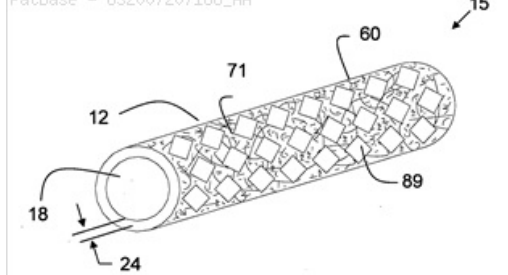
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European: A61F2/07 A61F2/91 A61F2/915 A61K47/48W26

A61L31/04H A61L31/10 A61L31/14H A61L31/16 B23K26/40B7H

US: 424/424 424/424P 623/1.42 623/1.420S 623/1.49 623/1.490S

PatBase - US2007207186_AA



Family:

Publication number	Publication date	Application number	Application date
US2007207186 AA	20070906	US20070713361	20070303
US8585753 BB	20131119	US20070713361	20070303

Priority:

US20060779128P 20060304 US20070713361 20070303

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Inventor(s): (std): SCANLON CATHERINE A ; SCANLON JOHN J ; SCANLON JOHN JAMES ; SCANLON CATHERINE ANN

Inventor(s): SCANLON CATHERINE ; SCANLON JOHN

Agent(s): JOHN J SCANLON

6) Family number: 44128932 (WO09155115A2)

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Title: COATINGS AND SURFACE TREATMENTS HAVING ACTIVE ENZYMES AND PEPTIDES

Abstract: Disclosed herein are a materials such as a coating, an elastomer, an adhesive, a sealant, a textile finish, a wax, and a filler for such a material, wherein the material includes an enzyme such as an esterase (e.g., a lipolytic enzyme, a sulfuric ester hydrolase, an organophosphorus compound degradation enzyme), an enzyme that degrades a cell wall and/or a cell membrane component (e.g., a lysozyme, a lytic transglycosylase, a peptidase), and/or a biocidal or biostatic peptide. Also disclosed herein are methods of decontaminating a surface comprising a material from a chemical substrate of an enzyme such as a lipid or an organophosphorus compound, as well as reducing the growth of a microorganism on or within such a material.

Classifications:

International (IPC 8-9): C09D5/00 C09D7/12 C12N9/00 (Advanced/Invention);

C09D5/00 C09D7/12 C12N9/00 (Core/Invention)

CPC: C09D7/63 C12N9/16 A01N63/02 C09D5/1687 C12N9/20 C12N9/48 C12N9/80 C12N11/04

European: A01N63/02 C09D5/16N C09D7/12D4 C12N11/04 C12N9/16 C12N9/20 C12N9/48 C12N9/80

Family:

Publication number	Publication date	Application number	Application date
EP2324087 A2	20110525	EP20090767426	20090529
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WO09155115 A2	20091223	WO2009US45692	20090529
WO09155115 A3	20100318	WO2009US45692	20090529

Priority:

US20080057705 20080530 US20080057705P 20080530 US20080058025P 20080602
US20080058025 20080602 WO2009US45692 20090529

Probable Assignee: REACTIVE SURFACES LTD

Assignee(s): (std): MCDANIEL STEVEN C ; REACTIVE SURFACES LTD

Inventor(s): (std): MCDANIEL STEVEN ; MCDANIEL STEVEN C

Agent(s): MURGITROYD GEORGE EDWARD; MCDANIEL STEVEN C

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

7) Family number: 51510583 (US2012180943A)

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Title: PREHEATED GAS EVACUATED HIGH PRESSURE PLASTIC LAMINATING SYSTEM

Abstract: An inventive lamination method for producing laminates from a plurality of layers of laminatable material.

Classifications:

International (IPC 8-9): A41D13/015 A41D31/02 B26D7/00

B26D7/01 B32B18/00 B32B27/02 B32B27/12 B32B27/32 B32B3/04 B32B37/02 B32B37/06 B32B37/10 B32B37/14 B32B38/00 B32B5/02 B32B5/06 B32B5/12 B32B5/26 B32B7/02 B32B7/12 B32B7/14

F41H1/02 F41H5/02 F41H5/04 F41H7/04 (Advanced/Invention)

CPC: B32B2309/02 B32B2309/12 Y10T156/1044 F41H7/044

F41H5/0478 B32B27/12 B32B7/12 B32B5/12 B32B5/022 B32B5/024

B32B27/32 B32B2605/00 B32B2262/106 F41H5/0485 B32B5/26

B32B7/14 B32B3/04 B32B5/06 Y10T428/231 F41H5/0414

F41H5/0435 B32B37/142 B32B2307/558 B32B2307/56

B32B2038/0076 B32B2313/04 B32B2398/20 B32B37/1018

B32B2309/04 B32B2605/08 B32B37/12 B32B38/0036 B32B2315/02

B32B2305/10 B26D1/045 B26D7/0006 B26D7/015 B26F1/3813

D10B2501/04 Y10T83/04 Y10T83/0476 Y10T83/0524 Y10T83/748

B32B37/10 B32B2309/105 B30B5/02 B32B2571/02 B32B2255/02 B32B2255/26 F41H5/0428 C04B35/634 C04B37/008

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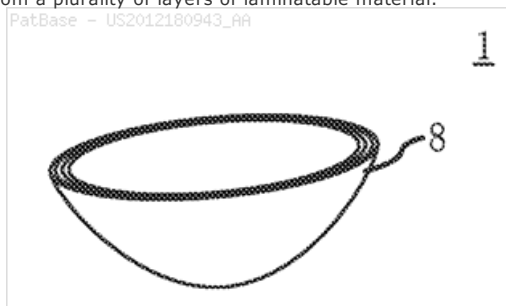
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European: B30B5/02 B32B37/10 B32B37/10A L32B309/02 L32B309/12

US: 156/185 156/222 156/286 156/382 156/382S 156/583.1 428/69 428/69 89/36.01 89/36.02

Family:

Publication number	Publication date	Application number	Application date
CA2917197 AA	20151231	CA20142917197	20140703
US2012180943 AA	20120719	US20120353185	20120118
US2015268010 AA	20150924	US20150684365	20150411
US2015323292 AA	20151112	US20150667391	20150324



US2015343737 AA	20151203	US20150667173	20150324
US2015343738 AA	20151203	US20150667313	20150324
US2015362293 AA	20151217	US20150741400	20150616
US2016102950 AA	20160414	US20140322931	20140703
US2016176174 AA	20160623	US20150599539	20150118
US2016176175 AA	20160623	US20150599722	20150119
US2016178326 AA	20160623	US20150599676	20150119

Priority:

US20110461586P	20110119	US20120353185	20120118	US20130842937P	20130703
US20130903353P	20131112	US20130903337P	20131112	US20140978342P	20140411
US20140012959P	20140616	US20140322931	20140703	WO2014US45331	20140703
US20140539259	20141112	US20150599539	20150118	US20150599676	20150119
US20150599722	20150119	US20150667173	20150324	US20150667313	20150324
US20150667391	20150324	US20150677313	20150324	US20150684365	20150411
US20150741400	20150616				

Probable Assignee: ANGEL ARMOR LLC

Assignee(s): (std): ANGEL ARMOR LLC ; EBS CONCEPTS LLC ; STRAUSS ERIC B

Assignee(s): EBS CARBON INC

Inventor(s): (std): STRAUSS ERIC B ; SLATER BENNY J

Agent(s): PERRY AND CURRIER

8) Family number: 54906845 (US2013256939A)

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Title: METHODS AND SYSTEMS FOR UTILIZING CARBIDE LIME

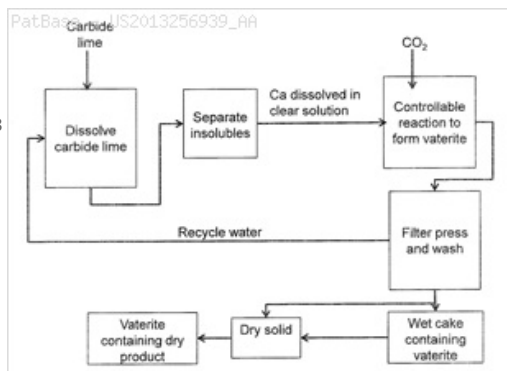
Abstract: Methods and systems are provided for producing a carbonate precipitation material comprising stable or reactive vaterite from carbide lime that provides both a source of divalent cations (Ca²⁺ ions, Mg²⁺ ions, etc.) and a source of proton removing agent.

Classifications:

International (IPC 8-9): C01D7/38 C01F11/18 C04B11/28 C04B2/00 C04B28/10 C04B7/345 C04B7/36 C08B3/26 (Advanced/Invention); C04B11/00 (Advanced/Non-invention)

CPC: C04B7/345 C04B7/36 C01F11/182 C01F11/183 C01F11/185 C01P2004/61 C01P2006/80 C04B2/005 C04B28/10 C04B2111/00758 Y02P40/18

US: 106/672 106/817 264/115 423/430 423/432



Family:

Publication number	Publication date	Application number	Application date
CN104487458 A	20150401	CN201380028635	20130314
CN104487458 B	20170912	CN201380028635	20130314
EP2831120 A1	20150204	EP20130769503	20130314
EP2831120 A4	20150826	EP20130769503	20130314
IN07909CN2014 A	20160701	IN2014CN07909	20141028
US2013256939 AA	20131003	US20130804439	20130314
WO13148279 A1	20131003	WO2013US31670	20130314

Priority:

US20120617243P	20120329	US20130804439	20130314	WO2013US31670	20130314
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Probable Assignee: CALERA CORP

Assignee(s): (std): CALAS GUILLAUME ; CALERA CORP ; CHEN IRVIN ; DEVENNEY MARTIN ; FERNANDEZ MIGUEL

Inventor(s): (std): CALAS GUILLAUME ; CHEN IRVIN ; DEVENNEY MARTIN ; FERNANDEZ MIGUEL

Agent(s): LONGLAND EMMA LOUISE; WILLIS MICHAEL A ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW 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

9) Family number: 60681139 (US2015307400A)

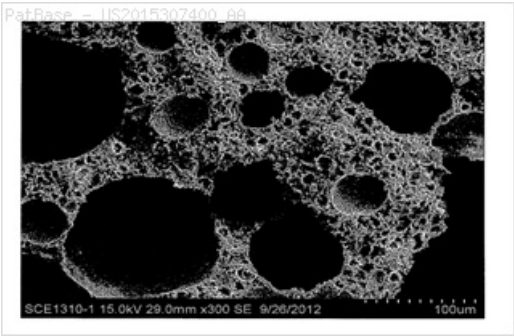
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Title: METHODS AND SYSTEMS FOR UTILIZING CARBIDE LIME OR SLAG

Abstract: Provided herein are methods comprising a) treating a slag solid or carbide lime suspension with an ammonium salt in water to produce an aqueous solution comprising calcium salt, ammonium salt, and solids; b) contacting the aqueous solution with carbon dioxide from an industrial process under one or more precipitation conditions to produce a precipitation material comprising calcium carbonate and a supernatant aqueous solution wherein the precipitation material and the supernatant aqueous solution comprise residual ammonium salt; and c) removing and optionally recovering ammonia and/or ammonium salt using one or more steps of (i) recovering a gas exhaust stream comprising ammonia during the treating and/or the contacting step; (ii) recovering the residual ammonium salt from the supernatant aqueous solution; and (iii) removing and optionally recovering the residual ammonium salt from the precipitation material.

Classifications:

International (IPC 8-9): C01C1/16 C01D7/00 C01F11/00 C01F11/18
C04B14/28 C04B28/02 C04B28/10 (Advanced/Invention);
C01C1/16 C01C1/24 (Advanced/Non-invention)
CPC: C04B28/02 C01F11/18 C01C1/164 C01C1/24 C04B14/28
C04B28/10 Y02P40/18
US: 106/817 423/430 423/432



Family:

Publication number	Publication date	Application number	Application date
US2015307400 AA	20151029	US20150694348	20150423
US9902652 BB	20180227	US20150694348	20150423
WO15164589 A1	20151029	WO2015US27272	20150423

Priority:

US20140983110P 20140423 US20140054834P 20140924 US20150694348 20150423

Probable Assignee: CALERA CORP

Assignee(s): (std): CALERA CORP

Inventor(s): (std): WEISS MICHAEL JOSEPH ; TESTER CHANTEL CABRERA ; FERNANDEZ MIGUEL ; DEVENNEY MARTIN ; CHEN IRVIN ; CALAS GUILLAUME

Agent(s): WILSON SONSINI GOODRICH AND ROSATI; ALEMOZAFAR ALI ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE 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 PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW