

Search query (2): [SP]: backgroundcementitious panel is one type of material used in the construction of buildings. one disadvantage to commonly used cementitious panel is that such panel possesses a high density and weight due to material composition. commonly used cementitious panel is difficult to manage and use in the construction process due to its great weight per square foot. for example, standard cementitious board is approximately twice the weight per square foot of gypsum board.moreover, cementitious board used in the construction process may require a low permeability to increase the longevity of installation. any introduction of additional ingredients to the composition of cementitious board may decrease durability such that the cementitious board does not pass required structural certification for use in construction.the present invention relates to a cementitious panel comprised of a low density core surrounded by upper and lower facers of reinforcements embedded into the core or attached to it using cementitious slurry or adhesives. the core, the slurry or both can be made and/or enhanced with a low permeability to water (or water vapor) characteristic by adding ingredients to their respective compositions to achieve permeability values similar to or below those of type-15 bitumen treated felt paper.more particularly, the present invention relates to panels or boards whose opposed broad faces are reinforced by a network of fibers which may be adhered at a surface thereof e.g. be adhered to or embedded at or just below the cementitious surfaces thereof and include a low density core using a light weight aggregate surrounded by cement paste to fuse the lightweight aggregate together. still more particularly, the present invention relates to a cementitious board whose longitudinal edges are reinforced by a network of fibers. such a cementitious panel or board may, for example, be a light-weight concrete panel, a tile backerboard panel, or the like.the word "cementitious" as used herein is to be understood as referring to any material, substance or composition containing or derived from a hydraulic binder such as for example, portland cement (see below), aluminate cement, and/or a pozzolan such as for example fly ash or blast furnace slag. the term "slurry" is to be understood as referring to a flowable mixture, e.g. a flowable mixture of water and one or more hydraulic binders and if desired or necessary, additional additives such as rheology modifiers, water reducers, chemical set control admixtures, and the like. the term "core" is to be understood as referring to a mixture of a hydraulic binders, water and aggregate (such as sand, expanded shale or clay, expanded polystyrene beads, slag and similar materials-see below), as well as, if desired or necessary, additional additives such as foaming agents, rheology modifiers, water reducers, and the like.the term "slurry pervious reinforcing mesh" is to be understood as characterizing a mesh as being suitable for use in the preparation of a concrete panel by having openings sufficiently large to permit penetration of a cementitious slurry or a slurry component of a core mix, or a full core mix, into and through the openings so as to permit (mechanical) bonding of the mesh to the core either by for example by being cemented to the core or by being embedded in a face or surface of the core of a panel.the expression "slurry impervious mesh" is to be understood as characterizing a mesh as being water impervious or as being able to filter out or inhibit the penetration of slurry or core solids therein so as to inhibit (mechanical) bonding of the mesh to the core by the cementitious material.it is to be understood herein that the expression "adhered to" in relation to a reinforcing mesh component (e.g. mesh, mat, fabric, tissue, etc.) means that the mesh component may be adhered for example to a face or surface by any suitable means such as by an adhesive, by a binder, by a slurry, by a core, or by being embedded in, at or immediately beneath the surface of a respective face or surface such that the mesh component is effectively bonded to the core, i.e. a hardened or set cementitious material extends through the interstices of the fibrous layers.keeping the above immediate definition in mind, it is to be understood herein that the expression "adhered to said core at" in relation to a reinforcing mesh component (e.g. mesh, mat, fabric, tissue, etc.) means that the mesh component does not extend beyond the specified face, area, region, or the like, i.e. it is restricted to the specified face region etc. thus for example in relation to a broad face reinforcing mesh indicated as being adhered to a core at a broad face means that the mesh is restricted to being adhered to the broad face.the word "woven" as used herein is to be understood as characterizing a material such as a reinforcing fabric (e.g., mesh, tissue or the like) as comprising fibers or filaments which are oriented oriented fibers or filaments being disposed in an organized fashion.the word "non-woven" as used herein is to be understood as characterizing a material such as a reinforcing fabric (e.g. mat, tissue or the like) as comprising fibers or filaments which are oriented (as described above) or which are non-oriented non-oriented fibers or filaments being disposed in random fashion.in general, a reinforced cementitious panel or board may be fastened, or sometimes adhered, to a wall, or a wall frame, for the construction of a wall and particularly for the construction of a wall where high moisture conditions are to be encountered. such a wall panel may provide a long lasting substrate for humid or wet areas such as shower rooms and bath rooms and provide high impact resistance where there is high number of people circulating. exterior installations are also encountered. for example, such a reinforced cementitious panel or board may be used as a substrate for ceramic tile in bath rooms, shower rooms, locker rooms, swimming pool rooms and other areas where the wall are subject to frequent splashing of water and high humidity. for exterior installations, such a reinforced cementitious panel or board may be used as a substrate for a stucco wall system or a masonry veneer wall system. once the panel is affixed to a wall frame a wall facing material may, as desired or necessary, in turn be affixed thereto such as, for example, ceramic tile, thin brick, thin marble panels, stucco or the like. reinforced cementitious panels or boards having cores formed of a cementitious composition with the faces being reinforced with a layer of fabric bonded thereto are known see for example u.s. pat. no. 1,439,954, u.s. pat. no. 3,284,980, u.s. pat. no. 4,450,022, u.s. pat. no. 4,916,604, etc. further, cementitious panels or boards with reinforced edges are known see for example, u.s. pat. no. 6,187,409.various processes for the preparation of such cementitious boards or panels are also known. british patent application no. 2,053,779 for example discloses a method for the continuous production of a building board which comprises advancing a pervious fabric on a lower support surface, depositing a slurry of cementitious material onto the advancing fabric, contacting the exposed face of the slurry with a second fabric such that the slurry penetrates through the fabric to form a thin, continuous film on the outer faces of the fabric.because of its cementitious nature, a cement board may have a tendency to be relatively brittle.cementitious wall board or panels are often attached at their marginal edges to the building framework with for example fasteners such as nails, screws and the like. when fasteners for example such as screws or nails are installed near the edge (less than), it is highly desirable that the edge be able to retain sufficient structural integrity such that the panel remains attached to a wall member, i.e. that the panel have a relatively high fastener pull resistance such that the fastener will not laterally pull through or break through the board edge easily.it is known to augment the strength of the border edge regions by wrapping the fabric covering one broad face of the board around the edge so as to overlay the fabric on the other opposite broad side thereof.u.s. pat. no. 4,916,004, for example, discloses a cement board having a woven mesh of glass fibers immediately below each face thereof, the mesh in one broad face continuing under the surface of both longitudinal edge faces, with the two meshes in an abutting or an overlapping relation along the longitudinal margins of the opposite face. please also see u.s. pat. nos. 5,221,386 and 5,350,554.u.s. pat. no. 4,504,533, for example, discloses a gypsum board in which a composite web of a non-woven fiberglass felt and a woven fiberglass mat covers the upper and lower faces of a gypsum core while only the lower non-woven fiberglass felt is wrapped around the longitudinal edges of the gypsum core so that the non-woven fiberglass felt extends partially inward on the upper face of the core such that the border edge regions are covered only by non-woven fiberglass felt.u.s. pat. no. 1,787,163 on the other hand discloses a gypsum board in which side edge portions include a separate strip of u-shaped fabric extending from one broad face across the edge to the other broad face the fabric legs of this separate strip each extend into the plaster core body beneath a respective sheet of fibrous material covering a respective broad face, i.e. the legs are submerged below the broad face and in particular below the broad face reinforcement means.it would be advantageous to be able to have an alternate manner of making an alternative type panel configured such that when a nail, screw or like s

Results: 61

Search history

Search PN=(US2015076728) (Results 1)

1:

Search [SP]: backgroundcementitious panel is one type of material used in the construction of buildings. one disadvantage to commonly used cementitious panel is that such panel possesses a high density and weight due to material composition. commonly used cementitious panel is difficult to manage and use in the construction process due to its great weight per square foot. for example, standard cementitious board is approximately twice the weight per square foot of gypsum board.moreover, cementitious board used in the construction process may require a low permeability to increase the longevity of installation. any introduction of additional ingredients to the composition of cementitious board may decrease durability such that the cementitious board does not pass required structural certification for use in construction.the present invention relates to a cementitious panel comprised of a low density core surrounded by upper and lower facers of reinforcements embedded into the core or attached to it using cementitious slurry or adhesives. the core, the slurry or both can be made and/or enhanced with a low permeability to water (or water vapor) characteristic by adding ingredients to their respective compositions to achieve permeability values similar to or below those of type-15 bitumen treated felt paper.more particularly, the present invention relates to panels or boards whose opposed broad faces are reinforced by a network of fibers which may be adhered at a surface thereof e.g. be adhered to or embedded at or just below the cementitious surfaces thereof and include a low density core using a light weight aggregate surrounded by cement paste to fuse the lightweight aggregate together. still more particularly, the present invention relates to a cementitious board whose longitudinal edges are reinforced by a network of fibers. such a cementitious panel or board may, for example, be a light-weight concrete panel, a tile backerboard panel, or the like.the word "cementitious" as used herein is to be understood as referring to any material, substance or composition containing or derived from a hydraulic binder such as for example, portland cement (see below), aluminate cement, and/or a pozzolan such as for example fly ash or blast furnace slag. the term "slurry" is to be understood as referring to a flowable mixture, e.g. a flowable mixture of water and one or more hydraulic binders and if desired or necessary, additional additives such as rheology modifiers, water reducers, chemical set control admixtures, and the like. the term "core" is to be understood as referring to a mixture of a hydraulic binders, water and aggregate (such as sand, expanded shale or clay, expanded polystyrene beads, slag and similar materials-see below), as well as, if desired or necessary, additional additives such as foaming

agents, rheology modifiers, water reducers, and the like. the term "slurry pervious reinforcing mesh" is to be understood as characterizing a mesh as being suitable for use in the preparation of a concrete panel by having openings sufficiently large to permit penetration of a cementitious slurry or a slurry component of a core mix, or a full core mix, into and through the openings so as to permit (mechanical) bonding of the mesh to the core either by for example by being cemented to the core or by being embedded in a face or surface of the core of a panel. the expression "slurry impervious mesh" is to be understood as characterizing a mesh as being water impervious or as being able to filter out or inhibit the penetration of slurry or core solids therein so as to inhibit (mechanical) bonding of the mesh to the core by the cementitious material. it is to be understood herein that the expression "adhered to" in relation to a reinforcing mesh component (e.g. mesh, mat, fabric, tissue, etc.) means that the mesh component may be adhered for example to a face or surface by any suitable means such as by an adhesive, by a binder, by a slurry, by a core, or by being embedded in, at or immediately beneath the surface of a respective face or surface such that the mesh component is effectively bonded to the core, i.e. a hardened or set cementitious material extends through the interstices of the fibrous layers. keeping the above immediate definition in mind, it is to be understood herein that the expression "adhered to said core at" in relation to a reinforcing mesh component (e.g. mesh, mat, fabric, tissue, etc.) means that the mesh component does not extend beyond the specified face, area, region, or the like, i.e. it is restricted to the specified face region etc. thus for example in relation to a broad face reinforcing mesh indicated as being adhered to a core at a broad face means that the mesh is restricted to being adhered to the broad face. the word "woven" as used herein is to be understood as characterizing a material such as a reinforcing fabric (e.g., mesh, tissue or the like) as comprising fibers or filaments which are oriented oriented fibers or filaments being disposed in an organized fashion. the word "non-woven" as used herein is to be understood as characterizing a material such as a reinforcing fabric (e.g. mat, tissue or the like) as comprising fibers or filaments which are oriented (as described above) or which are non-oriented non-oriented fibers or filaments being disposed in random fashion. in general, a reinforced cementitious panel or board may be fastened, or sometimes adhered, to a wall, or a wall frame, for the construction of a wall and particularly for the construction of a wall where high moisture conditions are to be encountered. such a wall panel may provide a long lasting substrate for humid or wet areas such as shower rooms and bath rooms and provide high impact resistance where there is high number of people circulating. exterior installations are also encountered. for example, such a reinforced cementitious panel or board may be used as a substrate for ceramic tile in bath rooms, shower rooms, locker rooms, swimming pool rooms and other areas where the wall are subject to frequent splashing of water and high humidity. for exterior installations, such a reinforced cementitious panel or board may be used as a substrate for a stucco wall system or a masonry veneer wall system. once the panel is affixed to a wall frame a wall facing material may, as desired or necessary, in turn be affixed thereto such as, for example, ceramic tile, thin brick, thin marble panels, stucco or the like. reinforced cementitious panels or boards having cores formed of a cementitious composition with the faces being reinforced with a layer of fabric bonded thereto are known see for example u.s. pat. no. 1,439,954, u.s. pat. no. 3,284,980, u.s. pat. no. 4,450,022, u.s. pat. no. 4,916,604, etc. further, cementitious panels or boards with reinforced edges are known see for example, u.s. pat. no. 6,187,409. various processes for the preparation of such cementitious boards or panels are also known. british patent application no. 2,053,779 for example discloses a method for the continuous production of a building board which comprises advancing a pervious fabric on a lower support surface, depositing a slurry of cementitious material onto the advancing fabric, contacting the exposed face of the slurry with a second fabric such that the slurry penetrates through the fabric to form a thin, continuous film on the outer faces of the fabric. because of its cementitious nature, a cement board may have a tendency to be relatively brittle. cementitious wall board or panels are often attached at their marginal edges to the building framework with for example fasteners such as nails, screws and the like. when fasteners for example such as screws or nails are installed near the edge (less than), it is highly desirable that the edge be able to retain sufficient structural integrity such that the panel remains attached to a wall member, i.e. that the panel have a relatively high fastener pull resistance such that the fastener will not laterally pull through or break through the board edge easily. it is known to augment the strength of the border edge regions by wrapping the fabric covering one broad face of the board around the edge so as to overlay the fabric on the other opposite broad side thereof. u.s. pat. no. 4,916,004, for example, discloses a cement board having a woven mesh of glass fibers immediately below each face thereof, the mesh in one broad face continuing under the surface of both longitudinal edge faces, with the two meshes in an abutting or an overlapping relation along the longitudinal margins of the opposite face. please also see u.s. pat. nos. 5,221,386 and 5,350,554. u.s. pat. no. 4,504,533, for example, discloses a gypsum board in which a composite web of a non-woven fiberglass felt and a woven fiberglass mat covers the upper and lower faces of a gypsum core while only the lower non-woven fiberglass felt is wrapped around the longitudinal edges of the gypsum core so that the non-woven fiberglass felt extends partially inward on the upper face of the core such that the border edge regions are covered only by non-woven fiberglass felt. u.s. pat. no. 1,787,163 on the other hand discloses a gypsum board in which side edge portions include a separate strip of u-shaped fabric extending from one broad face across the edge to the other broad face the fabric legs of this separate strip each extend into the plaster core body beneath a respective sheet of fibrous material covering a respective broad face, i.e. the legs are submerged below the broad face and in particular below the broad face reinforcement means. it would be advantageous to be able to have an alternate manner of making an alternative type panel configured such that when a nail, screw or like s (Results 61)

Title: PROCESS FOR EXPANDING SMALL DIAMETER POLYSTYRENE BEADS FOR USE IN CEMENTITIOUS BOARD

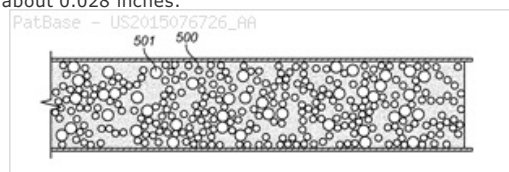
Abstract: A process for expanding small diameter polystyrene beads is disclosed. The process comprises applying a steam pressure of about three to seven pounds per square inch at a temperature of about two hundred twenty degrees Fahrenheit to two hundred forty degrees Fahrenheit to a plurality of expandable polystyrene beads until each of the plurality of expandable polystyrene beads has expanded to a diameter of about 0.030 inches to 0.125 inches, wherein each of the plurality of expandable polystyrene beads has an unexpanded diameter of about 0.015 inches to about 0.028 inches.

Classifications:

International (IPC 8-9): B28B1/52 B28B23/00 B29C39/42 B29C44/02 B32B3/10 E04C2/04 E04C2/06 E04C2/28 (Advanced/Invention); E04C5/04 E04C5/07 (Advanced/Non-invention)

CPC: B29C44/3461 B28B23/0062 B29C44/348 B29C44/02 E04C2/049 E04C2/06 E04F13/0885 E04C2/28 Y10T442/10 Y10T428/24777 B29C39/42 C04B2111/00612 C04B28/02 B28B1/525 B28B1/526 B28B23/0006 B28B23/0087 E04C5/04 E04C5/07 C08J9/16 C08J9/22 C08J9/224 C08J2203/22 C08J2325/04 C08J2325/06 Y10S264/09

US: 264/51 264/72 425/456 428/192 442/1 521/55



Family:

Publication number	Publication date	Application number	Application date
BR112016005599 A2	20170801	BR20161105599	20140916
CA2924051 AA	20160310	CA20142924051	20140916
CL2016000615 A1	20161223	CL20160000615	20160315
CO16047183 A2	20160610	CO20160047183	20160224
CR20160124 A	20160428	CR20160000124	20160310
MX2016002801 A1	20160526	MX20160002801	20140916
PE09142016 A1	20160916	PE20160000381	20140916
SV2016005170 A	20161110	SV20160005170	20160315
US2015076726 AA	20150319	US20130028089	20130916
US2015076728 AA	20150319	US20130028055	20130916
US2015079356 AA	20150319	US20130028009	20130916
US2017030078 AA	20170202	US20160294959	20161017
US9499980 BB	20161122	US20130028009	20130916
US9914245 BB	20180313	US20130028055	20130916
WO15039064 A1	20150319	WO2014US55745	20140916

Priority:

US20130028009 20130916 US20130028055 20130916 US20130028089 20130916
WO2014US55745 20140916 US20160294959 20161017

Probable Assignee: NATIONAL GYPSUM PROPERTIES LLC

Assignee(s): (std): NAT GYPSUM CO ; NAT GYPSUM PROPERTIES LLC ; MATHIEU MARIE ANDREE ; NAT GYPSUM PROPERTIES LLC

Assignee(s): POTVIN FREDERIC ; NATIONAL GYPSUM PROPERTIES LLC ; L HEUREUX JACQUES ; NATIONAL GYPSUM PROPERTIES LLC ; BANK OF AMERICA NA COLLATERAL AGENT AS ; BRASSARD JEAN FRANCOIS ; DUBE BENOIT ; GUERTIN PATRICK ; NATIONAL GYPSUM CO

Inventor(s): (std): GUERTIN PATRICK ; HEUREUX JACQUES L ; BRASSARD JEAN FRANCOIS ; DUBE BENOIT ; L HEUREUX JACQUES ; MATHIEU MARIE ANDREE ; POTVIN FREDERIC

Inventor(s): BENOIT DUBE ; PATRICK GUERTIN ; L U0027HEUREUX JACQUES ; MARIE ANDREE MATHIEU ; FREDERIC POTVIN ; JACQUES L HEUREUX ; JEAN FRANCOIS BRASSARD

Agent(s): BROUILLETTE AND ASSOCIES PARTNERS; PORZIO RIOS Y ASOCIADOS; JOSE ANDRES RINCON USCATEGUI; ICE MILLER LLP; DORITY AND MANNING PA; MERKER NICHOLAS R ET AL

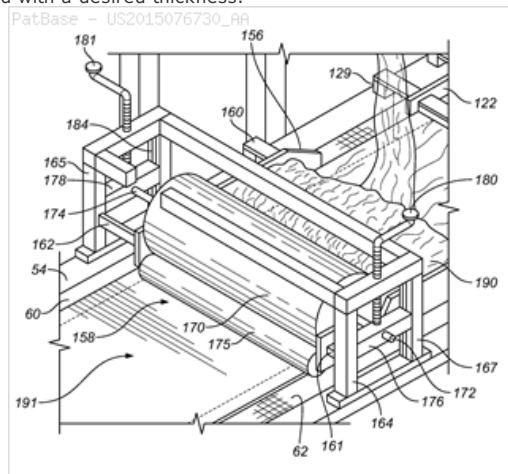
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX 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

Title: FORMATION OF CEMENTITIOUS BOARD WITH LIGHTWEIGHT AGGREGATE BACKGROUND

Abstract: A process for the formation of highly durable cementitious board using lightweight aggregate is disclosed. The process comprises pouring a core mix onto a conveyor, wherein the core mix is comprised of one or more lightweight aggregate filler in the amount of 0.5 to 5 weight percent of the core mix, one or more binders in the amount of 35 to 75 weight percent of the core mix, rheological admixture in the amount of about 0.5 to 5 weight percent of the core mix, surfactant in the amount of 0 to 0.1 weight percent of the core mix, one or more normal weight aggregate filler in the amount of 5 to 50 weight percent of the core mix, and water in the amount of 5 to 20 weight percent of the core mix. The process further comprises passing the core mix under a screed roller to flatten the core mix to produce an extruding board with a desired thickness.

Classifications:**International (IPC 8-9):** B28B1/52 B28B23/00

B29D99/00 (Advanced/Invention)

CPC: B28B1/525 B28B1/526 B28B23/0006 B28B23/0062 B28B23/0087**US:** 264/171.17**Family:**

Publication number	Publication date	Application number	Application date
■ US2015076730 AA	20150319	US20130028072	20130916
■ US9676118 BB	20170613	US20130028072	20130916

Priority:

US20130028072 20130916

Probable Assignee: NATIONAL GYPSUM PROPERTIES LLC

Assignee(s): (std): BRASSARD JEAN FRANCOIS ; DUBE BENOIT ; GUERTIN PATRICK ; L HEUREUX JACQUES ; POTVIN FREDERIC ; MATHIEU MARIE ANDREE ; NAT GYPSUM CO ; MATHIEU MARIA ANDREE ; NAT GYPSUM PROPERTIES LLC

Assignee(s): NATIONAL GYPSUM PROPERTIES LLC ; NATIONAL GYPSUM CO ; BANK OF AMERICA NA COLLATERAL AGENT AS

Inventor(s): (std): BRASSARD JEAN FRANCOIS ; DUBE BENOIT ; GUERTIN PATRICK ; L HEUREUX JACQUES ; MATHIEU MARIA ANDREE ; MATHIEU MARIE ANDREE ; POTVIN FREDERIC

Agent(s): ICE MILLER LLP

Title: DEVICE FOR SMOOTHING PANELS OR BATTENS

Abstract: PCT No. PCT/EP96/04714 Sec. 371 Date Apr. 17, 1998 Sec. 102(e) Date Apr. 17, 1998 PCT Filed Oct. 30, 1996 PCT Pub. No. WO97/17179 PCT Pub. Date May 15, 1997 An apparatus for smoothing a workpiece has a housing that is displaced relative to the workpiece in a direction and that carries a pair of augers provided with respective screwthreads having outer edges in contact with the workpiece. These augers are rotated on the housing about respective generally parallel axes transverse to the direction so as to scrape the workpiece with the screwthreads. Furthermore the augers are of such a hand and the are rotated in such a direction that the augers exert on the workpiece opposite axially directed forces.

Classifications:

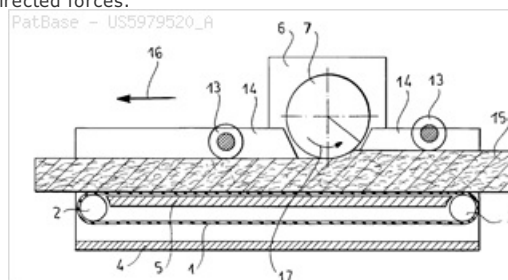
International (IPC 8-9): B27C1/02 B27G13/00 B28B11/08 E04F13/14 E04F21/16 (Advanced/Invention); B28B11/08 (Advanced/Non-invention); B27C1/00 B27G13/00 B28B11/08 E04F13/14 E04F21/02 (Core/Invention)

International (IPC 1-7): B27C1/00 B27C1/02 B27G13/00 B28B1/52 B28B11/08 E04F13/14 E04F21/16

CPC: Y10T407/15 Y10T407/1966 Y10T409/302576 Y10T409/30336 E04F21/16 B28B11/0809 B28B11/0845 Y10T83/9394

European: B28B11/08A B28B11/08C E04F21/16

US: 144/114.1 144/115 144/117.1 144/218 144/221 30/476 407/12 407/63 409/110 409/124 83/672

**Family:**

Publication number	Publication date	Application number	Application date
AT204527 E	20010915	AT19960937294T	19961030
DE19541000 A1	19970507	DE19951041000	19951103
DE19541000 C2	19990610	DE19951041000	19951103
DE59607549 D1	20010927	DE19965007549	19961030
DK0865347 T3	20011203	DK19960937294T	19961030
EP0865347 A1	19980923	EP19960937294	19961030
EP0865347 B1	20010822	EP19960937294	19961030
ES2162106 T3	20011216	ES19960937294T	19961030
JP11501589 T2	19990209	JP19970517805T	19961030
JP3199749 B2	20010820	JP19970517805T	19961030
KR100267793 B1	20001016	KR19980703200	19980430
KR19990067241 A	19990816	KR19980703200	19961030
TW485888 Y	20020501	TW20000221110U	19970214
US5979520 A	19991109	US19980051731	19980417
WO9717179 A1	19970515	WO1996EP04714	19961030

Priority:

DE19951041000 19951103 DE19965007549 19961030 WO1996EP04714 19961030

Probable Assignee: GRENZBACH BSH GMBH

Assignee(s): (std): BABCOCK BSH GMBH ; BEHRENDT BURKHARD

Assignee(s): GRENZBACH BSH GMBH ; BABCOCK BSH GMBH 36251 BAD HERSFELD DE

Inventor(s): (std): BEHREND BURKHARD ; BEHRENDT BURKHARD

Inventor(s): BEHREND BURKHARD 36251 BAD HERSFELD DE

Designated states: AT BE CH DE DK ES FI FR GB GR IE IT JP KR LI LU MC NL PT SE US

Title: FABRIC-REINFORCED CEMENTITIOUS SHEET-LIKE STRUCTURES AND THEIR PRODUCTION

Abstract: A bendable thin, sheet-like structure having a cementitious matrix reinforced with a three-dimensional fabric of an organic fiber uniformly distributed throughout the thickness of the structure and a continuous process for its production.

Classifications:

International (ipc 8-9): B28B1/52 B28B19/00

B32B27/12 (Advanced/Invention);

B28B1/52 B28B19/00 B32B27/12 (Core/Invention)

International (ipc 1-7): B28B3/00 B32B27/34

CPC: B28B1/525 B28B19/0092 Y10T428/31797 Y10T428/31913

Y10T442/674 Y10T442/676 Y10T442/678 B32B27/12 B32B27/36

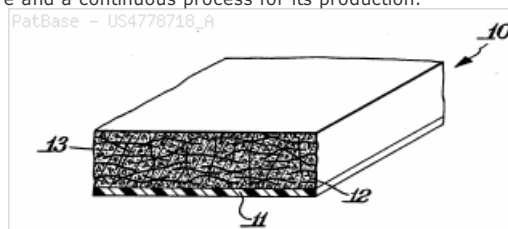
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B32B2262/0276 B32B2262/106 B32B2305/08 B32B2307/546

B32B2307/558 B32B2419/00

European: B28B1/52E B28B19/00K B32B27/12

US: 264/257 264/333 428/454 428/483 428/516 428/703 442/394 442/396 442/398 524/5



Family:

Publication number	Publication date	Application number	Application date
US4778718 A	19881018	US19870030410	19870326

Priority:

US19870030410 19870326

Probable Assignee: UNIV DELAWARE

Assignee(s): (std): UNIV DELAWARE

Assignee(s): UNIVERSITY OF DELAWARE ; OF DELAWARE A CORP OF DE UNIV ; OF DELAWARE NEWARK DE 19716 A CORP UNIV ; OF DELAWARE UNIV

Inventor(s): (std): NICHOLLS ROBERT L

Title: Building panel apparatus and method

Abstract: A prefabricated panel is made of a plurality of elongated metal frame members attached together to form a panel framework. At least one stud is attached between two of the panel frame members and has a pair of elongated stud members attached together at each end thereof with a molded polymer composite end member to form a thermal break therein. A metal reinforcing rod is attached to each molded composite end member and extends the length of the stud and may be attached through to the roof rafters or trusses. The prefabricated panel may be filled with insulation and have an expanded metal mesh covering on one side to act as a stiffening for the framework and to support a lightweight concrete coating. A method of making a reinforcing stud and panel is provided including molding a pair of end stud members in a predetermined shape and selecting a pair of elongated metal stud members shaped for attachment to the molded end stud members and attaching each stud member at each end to one of the molded end members. An elongated reinforcing metal member is attached through the stud and to each molded end member to provide a reinforcing stud member easily attached to a panel. The method further includes attaching the reinforcing stud into a prefabricated panel.

Classifications:

International (IPC 8-9): E04B2/58 E04B2/84 E04C2/38

E04C3/32 (Advanced/Invention);

E04B2/74 E04B2/84 (Advanced/Non-invention);

E04B2/58 E04C2/38 (Core/Invention);

E04B2/74 E04B2/84 (Core/Non-invention)

International (IPC 1-7): E04B2/56 E04C2/06 E04C2/20 E04C3/30

CPC: E04B2/58 E04B2/7412 E04B2/845 E04C2/384 E04C3/32 Y10S52/09

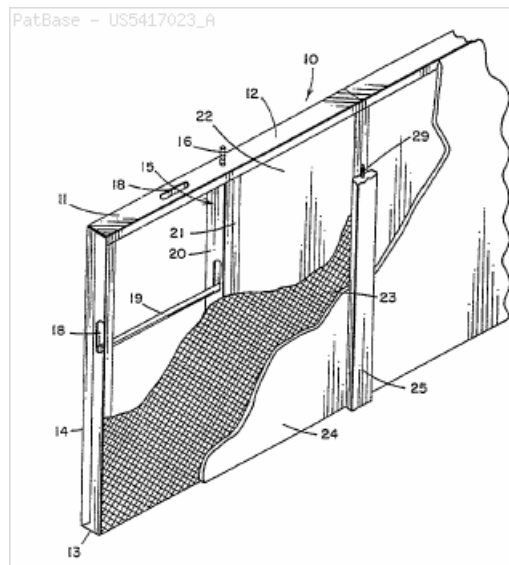
European: E04B2/58 E04B2/84P2 E04C2/38C E04C3/32 P04B2/74C2P
P04B2/84P2

US: 52/144 52/309.13 52/309.14 52/309.17 52/309.8 52/309.9 52/348

52/404.3 52/481.1 52/656.1 52/727 52/731.5 52/731.9 52/732.3

52/733.4 52/745.05 52/745.12 52/745.17 52/D1G.9 52/480 52/451.7

PatBase - US5417023_A



Family:

Publication number	Publication date	Application number	Application date
US5417023 A	19950523	US19930173058	19931227
US5555698 A	19960917	US19950368362	19950104
US5724783 A	19980310	US19960714352	19960916

Priority:

US19930173058 19931227 US19950368362 19950104 US19960714352 19960916

Probable Assignee:

MANDISH THEODORE O

Assignee(s):

MANDISH THEODORE O

Inventor(s): (std):

MANDISH THEODORE O

Title: APPARATUS FOR EXPANDING RESIN

Abstract: An apparatus for the production of low-density expandable resin beads, which apparatus comprises: a vessel to contain the beads; an inlet to introduce beads to be expanded into the interior of the vessel; an outlet to discharge from the vessel the beads after expansion to the desired density; means to rotate the vessel and to move the beads in a path from the inlet to the outlet of the vessel; and means to heat the beads while in the vessel from one state to another desired expanded state. Baffles are spaced apart from the interior wall of the vessel, and the baffles which are in the path of the beads are adapted to control the residence time of the beads as they move from the inlet to the outlet end of the vessel, and to maintain the beads as they move from the inlet to the outlet in a substantially uniform condition of expansion.

Classifications:

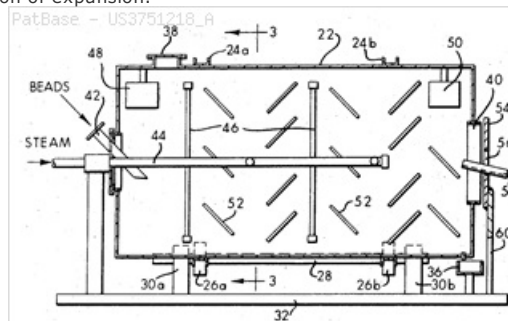
International (IPC 8-9): B29C44/00 B29C44/34 B29C59/00 B29C67/00 C08J9/16 C08J9/22 F27B15/00 (Advanced/Invention); B29C44/00 B29C44/34 B29C59/00 B29C67/00 C08J9/00 F27B15/00 (Core/Invention)

International (IPC 1-7): B29B1/00 B29B3/00 B29D27/00 B29D27/02 C08J1/14 C08J1/18 F27B15/00

CPC: B29C44/3461

European: B29C44/34H

US: 193/10 264/51 34/108 414/149 425/4R 432/118 432/13 432/134

**Family:**

Publication number	Publication date	Application number	Application date
CA985467 A1	19760316	CA19720150315	19720824
CH543360 A	19731031	CH19720012581	19720824
DE2240139 A1	19730308	DE19722240139	19720816
DE2240139 B2	19810702	DE19722240139	19720816
DE2240139 C3	19820311	DE19722240139	19720816
FR2150921 A1	19730413	FR19720030570	19720828
FR2150921 B3	19751003	FR19720030570	19720828
GB1374496 A	19741120	GB19720039711	19720825
JP48032168 A2	19730427	JP19720085450	19720828
JP55018611 B4	19800520	JP19720085450	19720828
NL7211622 A	19730301	NL19720011622	19720825
US3751218 A	19730807	US19710175548	19710827
US3811822 A	19740521	US19730355416	19730430

Priority:

US19710175548 19710827 US19730355416 19730430

Probable Assignee: ARTISAN IND

Assignee(s): (std): ARTISAN IND

Assignee(s): ARTISAN IND INC ; ARTISAN IND INC US ; ARTISAN IND INC WALTHAM MASS V ST A ; ARTISAN INDUSTRIES INC ; ARTISAN INDUSTRIES INC US ; ARTISAN INDUSTRIES INC WALTHAM MASS US ; ARTISAN INDUSTRIES INC WALTHAM MASS V ST A ; CHERENSON EDWARD L

Inventor(s): (std): CHERENSON E ; CHERENSON EDWARD L ; EDWARD L CHERENSON

Inventor(s): L CHERENSON EDWARD ; CHERENSON EDWARD L NEEDHAM HEIGHTS MASS US ; CHERENSON EDWARD L NEEDHAM HEIGHTS MASS V ST A ; CHERENSON E US

Title: Sheeter machine

Abstract: A sheeter machine and process is disclosed which eliminates the use of at least one stripper wire or doctor blade wherein the dough, including masa, is worked between pinch rolls rotating at selected, infinitely varying speed ratios enabling controlled differential adhesion characteristics between the dough material being sheeted and the surfaces of the rolls. Variable cutter speed ratios acting with the front roll enable control of the cut product size.

Classifications:

International (IPC 8-9): A21C3/02 A21D8/00 (Advanced/Invention);
A21C3/00 (Core/Invention)

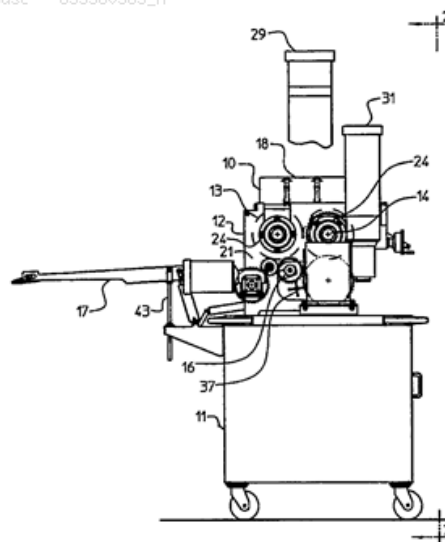
International (IPC 1-7): A21C3/02 A21D8/00 A21D8/08 B29C53/18
B29C55/18

CPC: A21C3/02 A21C3/028

European: A21C3/02 A21C3/02F

US: 425/142 425/310 425/363 425/367 425/502 425/503 425/518
426/502 426/503 426/517

PatBase - US5580583_A



Family:

Publication number	Publication date	Application number	Application date
AU199453576 A1	19950321	AU19940053576	19931012
AU199476021 A1	19950321	AU19940076021	19940823
US5580583 A	19961203	US19950492572	19950620
US5626898 A	19970506	US19950546927	19951023
WO9505742 A2	19950302	WO1994US09493	19940823
WO9505742 A3	19960118	WO1994US09493	19940823
WO9505744 A1	19950302	WO1993US09732	19931012

Priority:

US19930110392 19930823 WO1993US09732 19931012 US19940281361 19940727
WO1994US09493 19940823 US19950492572 19950620 US19950546927 19951023

Probable Assignee: HEAT CONTROL INC

Assignee(s): (std): HEAT CONTROL INC

Assignee(s): COMERICA BANK CALIFORNIA ; HEAT AND CONTROL ; HEAT AND CONTROL INC

Inventor(s): (std): BENSON CLARK K ; BROWN DANIEL E ; CARDIS ANDREW A ; CARDIS ANTHONY A ; CARIDIS ANDREW A ;
CARIDIS ANTHONY A ; KLEIN LAWRENCE F

Inventor(s): LAWRENCE F KLEIN ; DANIEL E BROWN ; CLARK K BENSON ; ANTHONY A CARIDIS ; ANDREW A CARIDIS ;
ANDREW A CARDIS ; ANTHONY A CARDIS

Designated states: AT AU BE BR CA CH DE DK ES FR GB GR IE IT JP KR LU MC NL NZ PT SE

Title: METHOD FOR PREPARING POLYPHENYLENE OXIDES WITH MANGANESE-VINYL RESIN COMPLEXES

Abstract: A novel method is disclosed for the preparation of polyphenylene oxides by the oxidative coupling of phenolic monomers which is based on the use of a manganese-vinyl resin complex as a catalyst.

Classifications:

International (IPC 8-9): C08F8/30 C08G65/00 C08G65/38

C08G65/44 (Advanced/Invention);

C08G65/00 (Advanced/Non-invention);

C08F8/00 C08G65/00 (Core/Invention)

International (IPC 1-7): B01J31/32 C08F4/26 C08F8/42 C08G61/00

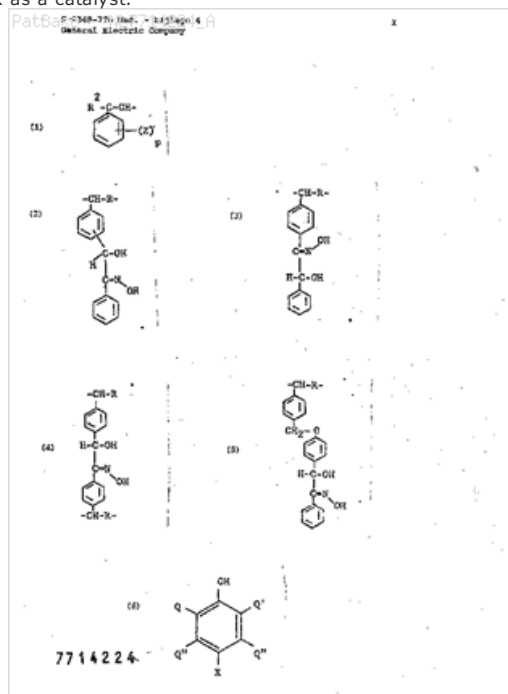
C08G61/10 C08G65/00 C08G65/38 C08G65/44

CPC: Y10S526/904 C08G65/44 C08F8/30

European: C08F8/30 C08G65/44 M08G261/312

US: 525/153 525/328.2 525/328.3 525/360 525/4 526/904 528/212

528/215 528/217



Family:

Publication number	Publication date	Application number	Application date
AU197731794 A1	19790628	AU19770031794	19771220
AU515037 B2	19810312	AU19770031794	19771220
BR7708513 A	19780822	BR19770008513	19771220
DE2756699 A1	19780622	DE19772756699	19771220
FR2374955 A1	19780721	FR19770038374	19771220
GB1559549 A	19800123	GB19770051975	19771214
IT1089315 A	19850618	IT19770030433	19771206
JP1356250 C3	19861224	JP19770152816	19771219
JP53079994 A2	19780714	JP19770152816	19771219
JP61026572 B4	19860621	JP19770152816	19771219
NL7714224 A	19780623	NL19770014224	19771221
US4110312 A	19780829	US19760753562	19761221
US4187361 A	19800205	US19780917795	19780622

Priority:

US19760753562 19761221 US19780917795 19780622

Probable Assignee: ICM KREBSOGE INC

Assignee(s): (std): GEN ELECTRIC

Assignee(s): GENERAL ELECTRIC ; GENERAL ELECTRIC CO ; GENERAL ELECTRIC CO TE SCHENECTADY NEW YORK VERSTVAM ; GENERAL ELECTRIC COMPANY ; GENERAL ELECTRIC COMPANY TE SCHENECTADY NEW YORK VERSTVAM ; GENERAL ELECTRIC CY ; ICM KREBSOGE INC ; HELLER FINANCIAL INC ; GEC

Inventor(s): (std): BANUCCI E ; BANUCCI E G ; BANUCCI EUGENE G ; BANUCCI EUGENE GEORGE ; OLANDER W ; OLANDER W K ; OLANDER WALTER K ; OLANDER WALTER KARL ; YUJIN JIYOOJI BANATSUSHI ; UORUTAA KAARU ORANDAA

Inventor(s): E G BANUCCI ; W K OLANDER ; WALTER KARL OLANDER ; WK OLANDER ; YUJIN JOOJI BANATSUSHI ; BARTUCCI E G AND OLANDER W K ; EG BANUCCI ; EUGENE GEORGE BANUCCI ; EUGENE GEORGE BANUCCI ET WALTER KARL OLANDER ; GEORGE BANUCCI EUGENE ; KARL OLANDER WALTER

Agent(s): CA; DAVIES COLLISON CAVE PTY LTD

Title: EXPANDABLE POLYSTYRENE WITH STABILIZED CELL STRUCTURE

Abstract: Incorporating 500 to 5,000, preferably 2,000 to 4,000 parts per million of Fischer-Tropsch wax of high congealing point into beads of expandable polystyrene made by suspension polymerization yields greater advantages, and conditions (time, temperatures, and recipe) of the polymerization become less critical. The drying or conditioning step before the pre-expansion under particular conditions to generate a suitable cell structure need not be followed, and a step of coating with zinc stearate or the like before the pre-expansion may be omitted. Unexpanded beads are obtained which yield consistent cell structure, independent of conditions of their storage. Beads of higher pentane content can be used, and final articles of lower density may be obtained. The throughput of the pre-expander may be increased, and the beads, after pre-expansion, have good free-flowing (reduced clumping) and mold-filling characteristics. Other things being equal, they can be molded with a shorter cycle time, yet exhibit excellent fusion and other desirable characteristics.

Classifications:

International (IPC 8-9): C08J9/00 C08J9/16 C08J9/20 C08L25/06 (Advanced/Invention);
C08J9/00 (Core/Invention)

International (IPC 1-7): C08F12/08 C08F2/20 C08F2/26 C08F2/44 C08J9/14 C08J9/16 C08J9/20 C08K5/01 C08L25/02 C08L25/04 C08L25/06 C08L91/06

CPC: C08J9/0061 C08J9/20 C08J2325/02 C08J2491/00 Y10T428/2982 Y10T428/2991

European: C08J9/00L C08J9/00L91 C08J9/20 M08J325/02 M08J491/00

US: 428/402 428/403 521/132 521/146 521/56 521/60 521/98 524/275 524/577

Family:

Publication number	Publication date	Application number	Application date
AU197836925 A1	19791213	AU19780036925	19780608
AU517754 B2	19810827	AU19780036925	19780608
CA1113200 A1	19811124	CA19780305080	19780609
DE2860456 D1	19810326	DE19782860456	19780602
EP0000120 A1	19790110	EP19780100079	19780602
EP0000120 B1	19810211	EP19780100079	19780602
JP54039466 A2	19790326	JP19780068984	19780609
US4243717 A	19810106	US19800117682	19800201

Priority:

US19770805377 19770610 CA19780305080 19780609 US19780964112 19781127
US19800117682 19800201

Probable Assignee: BASF SE

Assignee(s): (std): BASF WYANDOTTE CORP

Assignee(s): GAHMIG HERBERT M ; BASF CORP ; BASF SE ; BASF WYANDOTTE A CORP OF MI CORP

Inventor(s): (std): GAHMIG H M ; GAHMIG HERBERT M ; HERUBERTO MARUTEIN GAAMIHI ; GAHMIG HERBERT MARTIN

Inventor(s): HERBERT MARTIN GAHMIG ; H M GAHMIG

Agent(s): WM; WATERMARK INTELLECTUAL PROPERTY PTY LTD; ROBIC ROBIC AND ASSOCIES ASSOCIATES

Designated states: BE DE FR GB NL

Title: Apparatus for manufacturing concrete panels with surface pattern decorations

Abstract: An apparatus for manufacturing concrete panels with surface decoration patterns thereon said surface decoration patterns being formed by finishing material containing color cement or pigments or other coloring materials. The apparatus comprises a mortar hopper having a mortar outlet opening and a mortar shoot extending downward from beneath the outlet opening of the hopper. A molding surface is positioned below the mortar shoot and the mortar shoot extends to the molding surface. Color mortar containers are disposed above the mortar shoot to discharge color mortar materials contained therein. A mixing means incompletely mixes the mortar with the color mortar materials on the mortar shoot, a mixed mortar inverting descent guide plate is connected to the lower end of the mortar shoot and a vibrator is attached to the mortar shoot. The mortar layer which is obtained with color patterns produced through the incomplete mixing carried out by the mixing means is laid on the molding surface by the relative movement between the mixed mortar inverting descent guide plate and the molding surface.

Classifications:

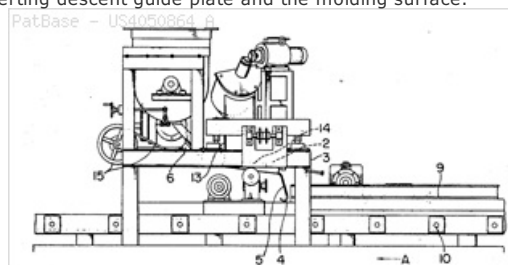
International (IPC 8-9): B01F13/00 B28B1/00 B28B1/16 B28B13/02 B28B17/02 B28B21/14 (Advanced/Invention); B01F13/00 B28B1/00 B28B1/16 B28B13/00 B28B17/00 (Core/Invention)

International (IPC 1-7): B28B1/00 B28B1/29 B28B11/00 B28B11/08 B28B13/00 B28B13/02 B28B17/00 B28B21/14 B28C7/06 E04C2/26

CPC: B01F13/0013 B28B1/005 B28B13/02 B28B17/02

European: B01F13/00D B28B1/00D B28B13/02 B28B17/02

US: 366/16 425/130 425/134 425/204 425/209 425/449



Family:

Publication number	Publication date	Application number	Application date
BR7508712 A	19770517	BR19750008712	19751230
CA1040396 A1	19781017	CA19750242034	19751218
DE2553583 A1	19770505	DE19752553583	19751128
FR2322702 A1	19770401	FR19750037742	19751210
JP52030817 A2	19770308	JP19750106055	19750903
JP53009767 B4	19780408	JP19750106055	19750903
JP932186 C3	19781107	JP19750106055	19750903
US4050864 A	19770927	US19750635335	19751126

Priority:

JP19750106055 19750903

Probable Assignee: KOMAKI KAGAKU GIJIYUTSU SOUGOU

Assignee(s): (std): KOMAKI KAGAKU GIJIYUTSU SOUGOU ; KOMAKI S ; KOMAKI SAIJI

Assignee(s): KOMAKI KAGAKU GIJIYUTSU SOUGOU KENKIYUUSHIYO KK

Inventor(s): (std): KOMAKI S ; KOMAKI SAIJI

Title: SYNTHETIC PANEL AND METHOD

Abstract: A method for producing a polymeric foamed material panel including the steps of providing a polymeric foamed material; and cutting (e.g. hot wire cutting) the polymeric foamed material until reaching a preconfiguration cut point. The method further includes cutting subsequently from the preconfiguration cut point a brace-receiving configuration in the polymeric foamed material; and sliding a brace member into the brace-receiving configuration to produce a polymeric foamed material panel.

Classifications:

International (IPC 8-9): B26D1/00 B26D1/553 B26D3/02 B26D3/12

B26F1/38 B26F3/12 E04B1/80 E04C2/20 (Advanced/Invention);

B26D1/00 B26D1/01 B26D3/00 B26F1/38 B26F3/06 E04B1/80

E04C2/10 (Core/Invention)

International (IPC 1-7): B21D47/00 B23P15/00 B26F3/12 E04B1/80

CPC: Y10T29/49629 B26D1/553 B26D3/008 B26D3/02 B26D3/12

B26F1/3806 B26F3/12 E04C2/20 E04C2/205 Y10T83/0414 Y10T83/0524

Y10T83/293

European: B26D1/553 B26D3/00D2 B26D3/02 B26D3/12 B26F1/38A

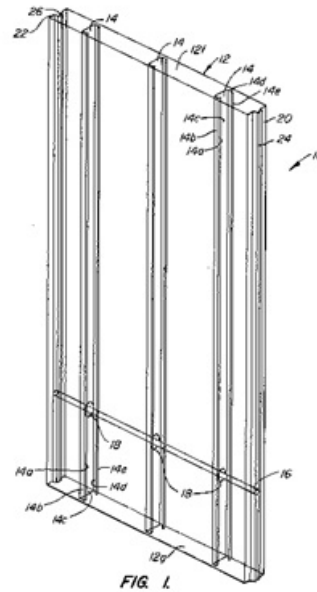
B26F3/12 E04C2/20 E04C2/20B

US: 264/142 264/158 29/897.32 52/220.2 52/309.16 52/592.1 83/16

83/171 83/39

PatBase - US5842276_A

U.S. Patent Dec. 1, 1998 Sheet 1 of 12 5,842,276

**Family:**

Publication number	Publication date	Application number	Application date
CA2257773 AA	19990707	CA19992257773	19990106
CA2257773 C	20071002	CA19992257773	19990106
US5842276 A	19981201	US19950556265	19951113
US5943775 A	19990831	US19980003747	19980107
US6167624 BA	20010102	US19990433543	19991103

Priority:

US19950556265 19951113 US19980003747 19980107 CA19992257773 19990106
US19990322268 19990528 US19990433543 19991103

Probable Assignee: QB TECHNOLOGY

Assignee(s): (std): QB TECHNOLOGIES L C ; QB TECHNOLOGY

Assignee(s): QB TECHNOLOGIES LC ; QB TECHNOLOGY CANADA CORP ; DURHAM THOMAS G ; LANAHAN KENNETH P ; LEE DANIEL L

Inventor(s): (std): ASHER WILLIAM V ; DURHAM THOMAS G ; MARTIN CURTIS T ; LANAHAN KENNETH P ; FOREMAN STEPHEN C

Agent(s): SMART AND BIGGAR

Title: CONCRETE MIX CONTAINING POLYSTYRENE BEADS

Abstract: Substantially cylindrical unexpanded polystyrene beads with a diameter on the order of 1 mm and a length on the order of 3 mm are expanded into substantially cylindrical expanded polystyrene beads with a diameter between about 2 and 5 mm, and a length between about 4 and 10 mm. These expanded beads are well suited for use as a substitute for concrete aggregate to make lightweight concrete and concrete construction boards.

Classifications:

International (IPC 8-9): B29B9/12 B29C44/34 C04B16/08

C08J3/12 (Advanced/Invention);

B29C44/34 C04B16/00 C08J3/12 (Core/Invention)

International (IPC 1-7): B29B9/12 B29C44/34 B32B5/16 C04B16/08

C04B20/00 C08J9/16

CPC: Y10T428/254 Y10T428/2982 Y10T428/2998 C08J3/12 B29C44/3461

C04B16/08 C08J2325/06 Y10T428/31815

European: B29C44/34H C04B16/08 C08J3/12 M08J325/06

US: 106/724 106/823 428/327 428/402 428/407 428/489 428/703 521/83 521/98

PatBase - US6218002_BA

U.S. Patent

Apr. 17, 2001

US 6,218,002 B1

FIG. 1

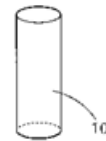
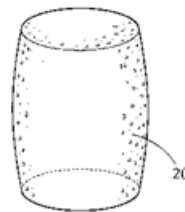


FIG. 2



Family:

Publication number	Publication date	Application number	Application date
CA2254417 AA	19990616	CA19982254417	19981117
EP0924173 A1	19990623	EP19980123602	19981210
US6218002 BA	20010417	US19970991297	19971216
US6365275 BA	20020402	US20000664521	20000918

Priority:

US19970991297 19971216 CA19982254417 19981117 US20000664521 20000918

Probable Assignee: POLYSOURCE INC

Assignee(s): (std): POLYSOURCE CORP ; POLYSOURCE INC

Assignee(s): WEHTJE ERIK W

Inventor(s): (std): WEHTJE ERIK W

Agent(s): BERESKIN AND PARR

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

Title: LIGHTWEIGHT CEMENTITIOUS BUILDING MATERIAL.

Abstract: While it is known to make lightweight cementitious products using cement, water and a lightweight filler such as expanded polystyrene, perlite, vermiculite or air bubbles, their use has been limited because of poor repeatability of obtaining homogeneous mixtures. The invention provides a lightweight cementitious mixture comprising by volume: 5 to 80 percent cement, 10 to 65 percent expanded polystyrene particles; 10 to 90 percent expanded mineral particles; and water sufficient to make a paste with a substantially even distribution of expanded polystyrene after proper mixing. The combination of expanded polystyrene particles and expanded mineral particles, such as of perlite and/or vermiculite, surprisingly enables homogeneous, repeatable mixing to occur. Thus products with stable, expected properties can be produced for a range of structural and non-structural applications.

Classifications:

International (IPC 8-9): C04B28/02 (Advanced/Invention);

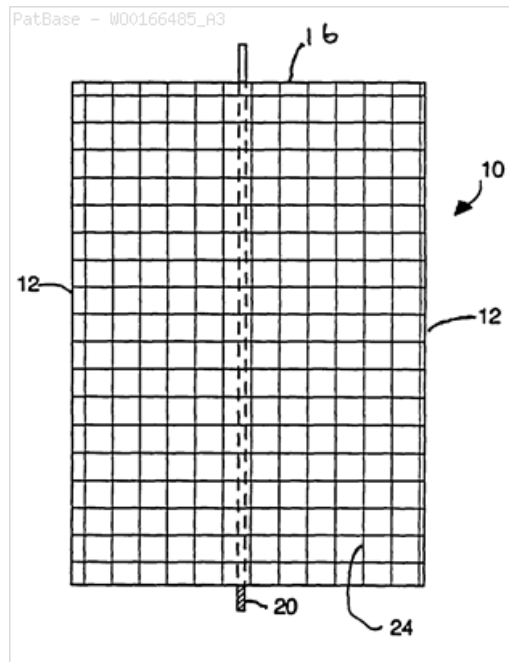
C04B28/00 (Core/Invention);

C04B (Subclass/Invention)

International (IPC 1-7): C04B C04B111/40 C04B14/18 C04B16/08 C04B28/02

CPC: C04B28/02 C04B2111/40

European: C04B28/02 M04B111/40



Family:

Publication number	Publication date	Application number	Application date
AU200137683 A1	20010917	AU20010037683	20010227
AU200137683 A5	20010917	AU20010037683D	20010227
WO0166485 A2	20010913	WO2001IB00400	20010227
WO0166485 A3	20020314	WO2001IB00400	20010227
ZA200109284 A	20020826	ZA20010009284	20011112

Priority:

ZA20000001179 20000308 WO2001IB00400 20010227 ZA20010009284 20011112

Probable Assignee: BUYSSSE RENE FRANCOIS

Assignee(s): (std): BUYSSSE RENE FRANCOIS

Assignee(s): RENE FRANCOIS BUYSSSE

Inventor(s): (std): RENE FRANCOIS BUYSSSE ; BUYSSSE RENE FRANCOIS

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN 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 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: Device for controlling the aggregations of a mixture of stone materials and binders for the production of agglomerated stone products

Abstract: In a device for controlling the aggregations of a mixture of stone materials and binders for the manufacturing of agglomerated stone products, two cylindrical rollers having parallel axes are rotated at different rotation speeds and the distance between said axes is adjustable in order to determine the maximum size of the aggregations.

Classifications:

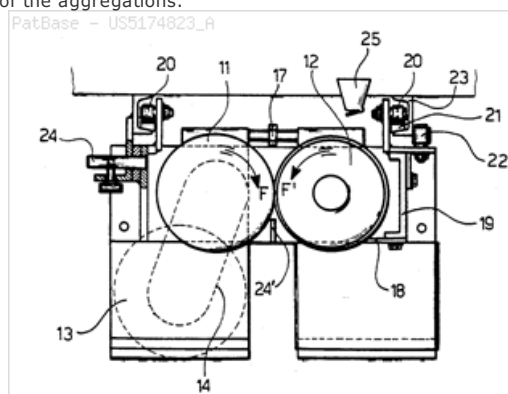
International (IPC 8-9): B01F13/00 B01F3/18 B28B17/02 B28B3/12 B28C1/16 B28C5/08 (Advanced/Invention); B28D (Subclass/Invention)

International (IPC 1-7): B01F13/00 B01F3/18 B01F7/12 B05C1/02 B05C1/08 B05C11/00 B28B17/02 B28B3/12 B28B7/00 B28C1/16 B28C5/08 B28C7/10 B29B7/56

CPC: B28B17/02 B28C5/08

European: B28B17/02 B28C5/08

US: 118/249 118/258



Family:

Publication number	Publication date	Application number	Application date
CA2042498 AA	19911117	CA19912042498	19910514
DE4116070 A1	19911121	DE19914116070	19910516
ES2046919 AB	19940201	ES19910001141	19910510
ES2046919 AC	19960316	ES19910001141	19910510
ES2046919 BA	19961101	ES19910001141	19910510
IT223042 U	19950609	IT19900059342U	19900516
IT9059342 U0	19900516	IT19900059342U	19900516
IT9059342 U1	19911117	IT19900059342U	19900516
JP4227837 A2	19920817	JP19910111873	19910516
US5174823 A	19921229	US19910698541	19910510

Priority:

IT19900059342U 19900516

Probable Assignee: DARIO TONCELLI

Assignee(s): (std): DARIO TONCELLI ; TONCELLI DARIO ; TONCHIERI DARIO

Assignee(s): TONCELLI DARIO BASSANO DEL GRAPPA VICENZA IT

Inventor(s): (std): DARIO TONCELLI ; TONCELLI DARIO ; TONCHIERI DARIO

Inventor(s): TONCELLI DARIO BASSANO DEL GRAPPA VICENZA IT

Title: NONCLUMPING THERMOPLASTIC PARTICLES AND PROCESS OF MAKING SAME

Abstract: ABSTRACT OF THE DISCLOSURE

Clumping of thermoplastic particles is prevented by mixing the particles with finely divided hydrophobic silica powder. The mixture retains its free-flowing characteristics during storage.

Classifications:

International (IPC 8-9): C08J3/12 C08J9/224 (Advanced/Invention);

C08J3/12 C08J9/00 (Core/Invention)

International (IPC 1-7): C08F47/22 C08J1/26 C08J1/30 C08J3/12 C08J9/16 C08J9/22 C08K3/36 C08L25/04

CPC: C08J3/124 C08J9/224

European: C08J3/12B C08J9/224

US: 260/25B 521/142 521/145 521/146 521/149 521/57 521/91

Family:

Publication number	Publication date	Application number	Application date
DE2128680 A1	19730614	DE19712128680	19710609
DE2128680 B2	19810527	DE19712128680	19710609
US3661810 A	19720509	US19700047176	19700617

Priority:

US19700047176 19700617 DE19712128680 19710609

Probable Assignee: BASF SE

Assignee(s): (std): BASF WYANDOTTE CORP

Assignee(s): BASF WYANDOTTE CORP 48192 WYANDOTTE MICH US ; BASF WYANDOTTE CORP PARSIPPANY N J V ST A ; BASF CORP ; BASF SE

Inventor(s): (std): GAHMIG HERBERT

Inventor(s): HERBERT GAHMIG ; GAHMIG HERBERT PRINCETON N J V ST A ; GAHMIG HERBERT PRINCETON N J US ; GAHMIG HERBERT PRINCETON N J

Title: IMPROVEMENTS IN FIBRE REINFORCED CEMENT

Abstract: A building panel comprises a layer of glass reinforced cement (12) cast in a mould (20, 22) to a required thickness or thicknesses. In order to reinforce the structure and also to resist cracking during hardening of the material a mesh of reinforcement (24) is embedded in at least a part of the layer (12), the elements (26, 28) of the mesh (24) being fixed together to support the material through the reinforced zone.

Classifications:

International (IPC 8-9): B28B23/02 E01D19/12 E04C2/06 E04C3/294 E04C5/07 (Advanced/Invention);

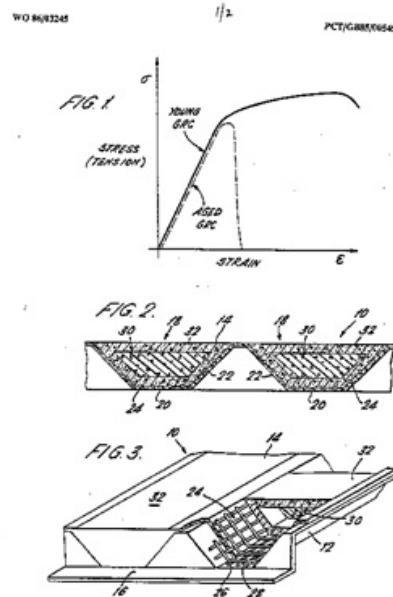
E01D19/12 E04C2/06 E04C3/29 E04C5/07 (Core/Invention)

International (IPC 1-7): B28B23/02 B32B C04B14/42 E01D19/12 E04C2/04 E04C2/06 E04C2/26 E04C5/07

CPC: E01D19/125 E01D2101/26 E01D2101/262 E01D2101/264 E01D2101/266 E04C2/06 E04C3/294 E04C5/073

European: E01D19/12B E04C2/06 E04C3/294 E04C5/07A P01D101/26 P01D101/26B P01D101/26D P01D101/26F

PatBase - W08603245_A1



Family:

Publication number	Publication date	Application number	Application date
AU198550448 A1	19860605	AU19850050448	19851128
EP0183526 A1	19860604	EP19850308579	19851126
ES549327 A0	19861001	ES19850549327	19851127
ES8700372 A1	19861001	ES19850549327	19851127
GB2167466 A1	19860529	GB19850029076	19851126
GB8429992 A0	19850109	GB19840029992	19841128
GB8529076 A0	19860102	GB19850029076	19851126
NO854749 A	19860529	NO19850004749	19851127
WO8603245 A1	19860605	WO1985GB00545	19851128
ZA8509114 A	19860827	ZA19850009114	19851128

Priority:

GB19840029992 19841128

Probable Assignee: PERMANENT FORMWORK LTD

Assignee(s): (std): PERMANENT FORMWORK LTD

Assignee(s): PERMANENT FORMWORK LIMITED

Inventor(s): (std): KEMPSTER EDWARD

Inventor(s): EDWARD KEMPSTER

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD

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

Title: Making lightweight concrete

Abstract: Lightweight concrete incorporating expanded polystyrene beads is made by first coating the expanded beads with an aqueous surfactant solution, which preferably contains a substantive cationic surfactant, e.g. a substituted or ethoxylated quaternary ammonium compound containing a C10 to C18 alkyl substituent or an ethoxylated primary or secondary amine having a C10 to C18 alkyl substituent, and a non-ionic surfactant such as an ethoxylated primary or secondary alcohol or a nonylphenol-ethylene oxide condensate. The wet beads are coated with dry cement and then mixed with a further supply of cement, water and sand or aggregate to complete the concrete mix.

Classifications:

International (IPC 8-9): B28B1/50 C04B16/08 C04B20/12

C04B38/08 (Advanced/Invention);

C04B38/08 (Advanced/Non-invention);

C04B16/00 C04B20/00 C04B38/08 (Core/Invention)

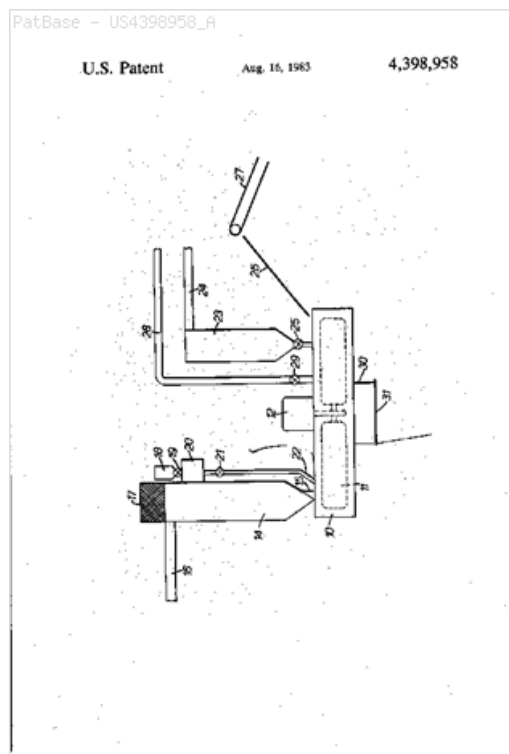
International (IPC 1-7): B28B1/50 C04B15/02 C04B16/08 C04B21/08

C04B24/20 C04B24/32 C04B31/30 C04B31/40 C04B31/44 C04B38/08

CPC: C04B20/12

European: C04B20/12

US: 106/90 106/97 521/146 521/83



Family:

Publication number	Publication date	Application number	Application date
AT15640 E	19851015	AT19810304769T	19811013
AU198281672 A1	19820930	AU19820081672	19820318
AU561100 B2	19870430	AU19820081672	19820318
CA1172835 A1	19840821	CA19820398588	19820317
DE0060950 T1	19830511	DE19810304769T	19811013
DE3172353 D1	19851024	DE19813172353	19811013
EP0060950 A1	19820929	EP19810304769	19811013
EP0060950 B1	19850918	EP19810304769	19811013
GB2095227 A1	19820929	GB19810009185	19810324
GB2095227 B2	19850501	GB19810009185	19810324
IE52490 B	19871111	IE19820000664	19820323
IE820664 L	19820924	IE19820000664	19820323
JP57183353 A2	19821111	JP19820046145	19820323
NO820929 A	19820927	NO19820000929	19820322
US4398958 A	19830816	US19820346670	19820208
ZA8201802 A	19831026	ZA19820001802	19820317

Priority:

GB19810009185 19810324 EP19810304769 19811013 CA19820398588 19820317

Probable Assignee: CEMPOL SALES LTD

Assignee(s): (std): CEMPOL SALES ; SENPOORU SEERUSU LTD

Assignee(s): HODSON RALPH ; NOBLE ROBERT ; DAVIES KENNETH J ; CEMPOL SALES LIMITED ; CEMPOL SALES LTD ; CEMPOL SALES LTD SOUTHAMPTON HAMPSHIRE GB ; BROWN GLEN J L ; CARROLL WILLIAM L

Inventor(s): (std): BROWN GLEN J L ; BROWN GLEN JOHN LEWIS ; CARROLL WILLIAM ; CARROLL WILLIAM L ; DAVIES KENNETH J ; DAVIES KENNETH JOHN ; GUREN JIYON RUUISU BURAUN ; GUREN JON RUUISU BURAUN ; HODSON RALPH ; JOHN DAVIES KENNETH ; KENESU JIYON DEIBISU ; KENESU JON DEIBISU ; LEWIS BROWN GLEN JOHN ; NOBLE ROBERT ; RARUFU HODSON ; ROBAATO NOOBERU ; UIRIAMU ERU KIYAROORU ; UIRIAMU ERU KYAROORU

Inventor(s): WILLIAM L CARROLL ; ROBERT NOBLE ; NOBLE ROBERT ROMSEY HAMPSHIRE GB ; RALPH HODSON ; KENNETH JOHN DAVIES ; HODSON RALPH SCUNTHORPE SOUTH HUMBERSIDE GB ; DAVIES KENNETH JOHN ROMSEY HAMPSHIRE GB ; GLEN JOHN LEWIS BROWN ; CARROLL WILLIAM SOUTHAMPTON HAMPSHIRE GB

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; FETHERSTONHAUGH AND CO

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

Title: METHOD OF AND APPARATUS FOR COMPACTING AND DEWATERING CEMENTITIOUS MIXTURES

Abstract: 1. A method of forming a concrete roadway which comprises pouring a plastic concrete mass upon a prepared roadway base, covering a portion of said plastic mass with a chambered member, placing vibratory mechanisms in the contiguous mass, vibrating the mass to compact the same and release excess water, exhausting the air from said chamber, and extracting a portion of the water from said mass.

Classifications:

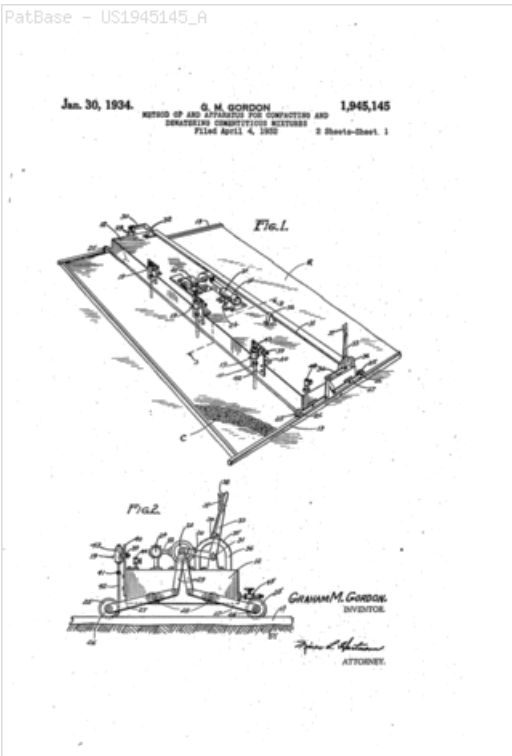
International (IPC 8-9): E01C19/40 (Advanced/Invention);
E01C19/22 (Core/Invention)

International (IPC 1-7): E01C19/40

CPC: Y10S264/78 E01C19/407

European: E01C19/40E

US: 264/71 264/DIG.78 366/108 366/139 366/6 404/113 404/75 425/456



Family:

Publication number	Publication date	Application number	Application date
US1945145 A	19340130	US19320603015	19320404

Priority:

US19320603015 19320404

Probable Assignee:

VIBER CO LTD

Assignee(s): (std):

VIBER CO LTD ; VIBER COMPANY LTD

Assignee(s):

VIBER COMPANY LIMITED

Inventor(s): (std):

GORDON GRAHAM M

Title: Expandable thermoplastic polymer particles and method for making same

Abstract: An improved process for manufacture of expandable polymer particles is provided. The continuous process disclosed produces expandable polymer pellets in a single step while eliminating many of the dangers inherent in processes of prior art employed for the same. The polymers produced herein are of uniform size, and may be molded into various articles of manufacture using existing equipment and techniques known to those skilled in the art.

Classifications:

International (IPC 8-9): B29C44/34 C08J9/16 (Advanced/Invention);
C08J9/16 (Advanced/Non-invention);
B29C44/34 C08J9/00 (Core/Invention)

International (IPC 1-7): B29C44/34 C08J9/16 C08J9/18 C08L101/00

CPC: B29C44/3461 C08J9/16 C08J2203/06 C08J2203/14 C08J2203/142
C08J2203/12 C08J2203/22

European: B29C44/34H C08J9/16 M08J203/06 M08J203/12 M08J203/14
M08J203/142 M08J203/22

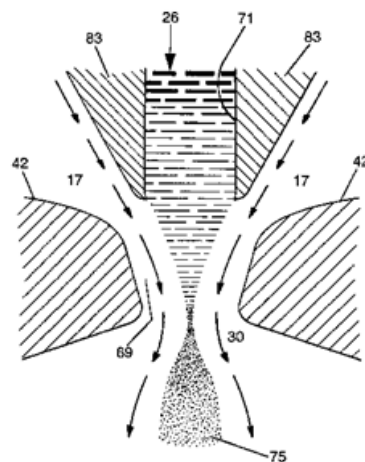
US: 264/12 521/56 521/60 521/78 521/79

PatBase - US5977195_A

U.S. Patent

Nov. 2, 1999

5,977,195



Family:

Publication number	Publication date	Application number	Application date
AU199885904 A1	19990222	AU19980085904	19980724
AU199922399 A1	20000214	AU19990022399	19990121
AU199922399 A5	20000214	AU19990022399	19990121
BRPI9810778 A	20000919	BR1998PI10778	19980724
BRPI9912681 A	20011009	BR1999PI12681	19990121
CA2297102 AA	20000120	CA19982297102	19980724
CA2338464 AA	20010123	CA19992338464	19990121
CN1265689 A	20000906	CN19988007866	19980724
CN1313876 A	20010919	CN1998009956	19990121
DE69802539 D1	20011220	DE19986002539	19980724
EP1000115 A1	20000517	EP19980937116	19980724
EP1000115 B1	20011114	EP19980937116	19980724
EP1102808 A1	20010530	EP19990902414	19990121
ID24187 A	20000713	ID20000000201	19980724
ID28908 A	20010712	ID20010000454	19990121
JP2001512165 T2	20010821	JP20000505227T	19980724
JP2003524667 T2	20030819	JP20000561250T	19990121
KR20010022519 A	20010315	KR20007001108	19980724
KR20010071021 A	20010728	KR20017000994	19990121
NO20000354 A	20000124	NO20000000354	20000124
NO20000354 A0	20000124	NO20000000354	20000124
NO20010367 A	20010323	NO20010000367	20010122
NO20010367 A0	20010122	NO20010000367	20010122
NZ502493 A	20021220	NZ19980502493	19980724
US5977195 A	19991102	US19980158189	19980922
US6093750 A	20000725	US19990373011	19990811
WO0005296 A1	20000203	WO1999US01256	19990121
WO9906477 A1	19990211	WO1998US15446	19980724

Priority:

US19970054472P 19970801	US19970055333P 19970812	US19970056496P 19970820
US19980122512 19980724	WO1998US15446 19980724	US19980158189 19980922
WO1999US01256 19990121	US19990373011 19990811	

Probable Assignee: PACIFIC PAYMENT SYSTEMS INC

Assignee(s): (std): HUNTSMAN CORP ; HUNTSMAN CHEMICAL CORP ; HUNTSMAN CORP
Assignee(s): PACIFIC PAYMENT SYSTEMS INC ; HUNTSMAN CO ; HUNTSMAN CO LLC ; HUNTSMAN CORP SALT LAKE CITY ; KLINGENSMITH GEORGE B ; CRAIG THOMAS ORR ; DEUTSCHE BANK TRUST CO ; DEUTSCHE BANK TRUST CO AMERICAS WAS KNOWN BANKE AS
Inventor(s): (std): CARIG T O ; CRAIG ORR ; CRAIG T O ; CRAIG THOMAS ORR ; GEORGE BRUCE KLINGENSMITH ; KLINGENSMITH G B ; KLINGENSMITH GEORGE BRUCE ; ORR CRAIG THOMAS ; T O CRAIG ; THOMAS ORR CRAIG ; TO CARIG ; KLINGENSMITH GEORGE B ; GB KLINGENSMITH
Inventor(s): GEORGE B KLINGENSMITH ; T O CARIG ; G B KLINGENSMITH
Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR; KIM YOON BAE; LEE SE JIN
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 GW HU ID IE IL IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG UZ VN YU ZW

Title: APPARATUS AND PROCESS OF PRODUCING CALENDERED LINOLEUM MATERIALS

Abstract: (Claim 1) 1. The method of producing a calendered sheet of linoleum composition which comprises the steps of feeding linoleum composition to a pair of rotating calender rolls, separating the resulting calendered sheet from said rolls, applying a cleaning agent to at least one of the rolls from which the sheet has been separated, and thereafter removing said agent and any remaining linoleum composition adhering to said roll in advance of the point of contact of said roll with said composition whereby said roll continuously presents a freshly cleaned surface to the composition being calendered.

Classifications:

International (IPC 8-9): D06N7/00 (Advanced/Invention);

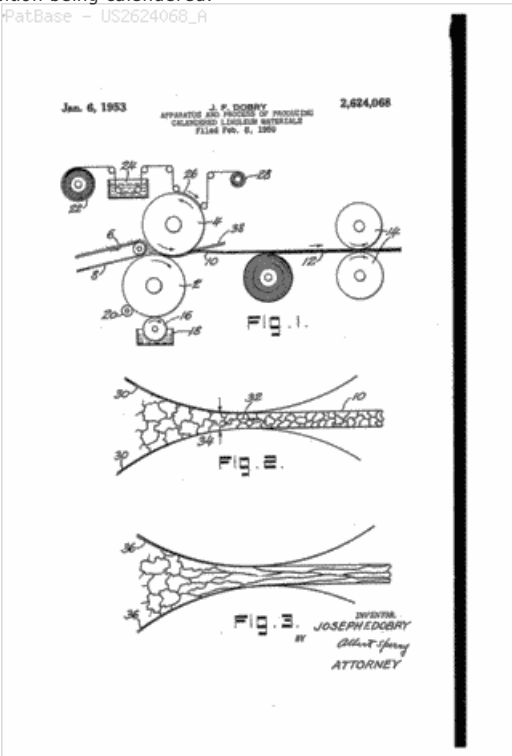
D06N7/00 (Core/Invention)

International (IPC 1-7): D06N1/00

CPC: D06N7/0028

European: D06N7/00B4

US: 15/256.52 156/242 156/389 264/39 264/76 425/230 425/93



Family:

Publication number	Publication date	Application number	Application date
US2624068 A	19530106	US19500143080	19500208

Priority:

US19500143080 19500208

Probable Assignee:

SLOANE BLABON CORP

Assignee(s): (std):

SLOANE BLABON CORP

Inventor(s): (std):

DOBRY JOSEPH F

Title: MANUFACTURE OF HIGH-DENSITY FOAMED POLYMER

Abstract: A method and apparatus are disclosed for the manufacture of foamed polystyrene particles of moderately great density, such as 3 to 25 lbs. per cubic foot (50 to 400 milligrams per cubic centimeter). Beads are fed by a constant-displacement auger to an expander vessel having the form of, in its lowest part, a cylinder with a vertical axis, and thereabove, of a frustum of an inverted cone having a base angle of about 83 DEG to 70 DEG. Steam is supplied to the vessel in an appropriate, controlled manner. The vessel also contains stator bars, to break lumps and retard the rotation of the material in the vessel, and rotating bars, to provide the necessary agitation. Desirably, the equipment includes a discharge chute of adjustable location, to facilitate adjustment of the residence time and consequently of the density of the expanded beads being produced. With apparatus according to the invention, it is possible to obtain beads substantially uniformly expanded to a desired density within the range indicated above. Such higher-density expanded polystyrene particles find use in various applications, such as shoe soles, or as a substitute for wood.

Classifications:

International (IPC 8-9): B29C44/34 (Advanced/Invention);

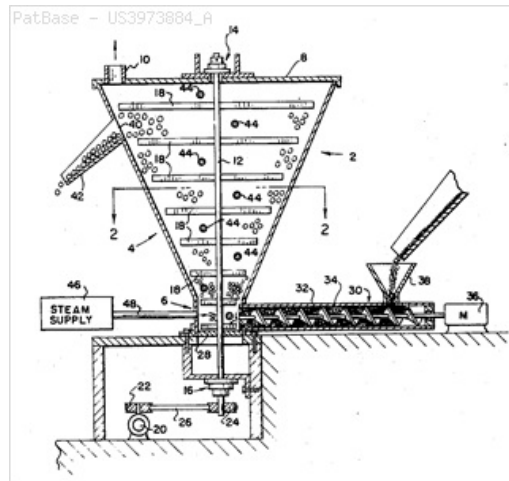
B29C44/34 (Core/Invention)

International (IPC 1-7): B29B3/00 B29D27/00

CPC: Y10S264/09 B29C44/3461

European: B29C44/34H

US: 264/51 264/DIG.9 34/181 34/182 34/187 34/593 425/4R



Family:

Publication number	Publication date	Application number	Application date
CA1053423 A1	19790501	CA19750237221	19751007
DE2546870 A1	19760506	DE19752546870	19751018
US3973884 A	19760810	US19740517271	19741023

Priority:

US19740517271 19741023

Probable Assignee: BASF SE

Assignee(s): (std): BASF WYANDOTTE CORP

Assignee(s): TERMINIELLO MICHAEL A ; BASF CORP ; BASF SE

Inventor(s): (std): TERMINIELLO MICHAEL ANGELO ; TERMINIELLO MICHAEL A

Inventor(s): ANGELO TERMINIELLO MICHAEL

Title: PREVENTING STATIC BUILDUP IN FOAMABLE RESIN BEADS WITH CLAY

Abstract: (Claim 1) A destaticized foamable composition in the form of free-flowing, nonadherent beads comprising: (a) a normally solid nonporous styrene polymer in bead form, said polymer (b) having incorporated therein a volatile organic compound as a foaming agent and (c) having uniformly deposited on the surface of said beads an adherent coating consisting essentially of particles of crystalline kaolin clay, the particles of said kaolin clay having previously been coated with a small amount of a normally solid cationic nitrogeous surface active compound as an antistatic material for said styrene polymer, said surface active compound containing a long-chain hydrocarbon radical containing 8 to 20 carbon atoms and derived from a fatty acid, the cationic radical of said nitrogenous surface active compound being selected from the group consisting of amine, amide and quaternary ammonium, said cationic surface active compound being stable and nonvolatile at styrene polymer molding and fusion temperatures.

Classifications:

International (IPC 8-9): C08J9/22 C08J9/224 (Advanced/Invention);
C08J9/00 (Core/Invention)

International (IPC 1-7): C08J9/22

CPC: Y10S516/07 C08J9/224 C08J9/22 C08J2325/02 Y10T428/2993

European: C08J9/22 C08J9/224 M08J325/02

US: 428/404 516/DIG.7 521/146 521/57 521/88 521/91 521/94

Family:

Publication number	Publication date	Application number	Application date
■ US3296154 A	19670103	US19630273555	19630417

Priority:

US19630273555 19630417

Probable Assignee: PHIBRO CORP

Assignee(s): (std): MINERALS AND CHEM PHILIPP CORP

Assignee(s): PHIBRO CORP ; MINERALS AND CHEMICALS PHILIPP CORP ; ENGLEHARD A CORP OF DE CORP ;
ENGLEHARD CORP

Inventor(s): (std): FERRIGNO THOMAS H

Title: Method and apparatus for making reinforced cement board

Abstract: A network of reinforcing fibers is pressed against the surface of an underlying carrier sheet by the weight of a concrete mix. A vertical gap between the sheet and the network is created so that the concrete mix may penetrate the voids of the network and spread out on the underlying sheet to embed the fibers.

Classifications:

International (IPC 8-9): B28B1/16 B28B1/30 B28B1/52 B28B23/00

B28B5/02 B32B13/02 (Advanced/Invention);

B28B1/30 B28B1/52 B28B23/00 B28B5/00 (Core/Invention)

International (IPC 1-7): B28B1/16 B28B1/30 B28B1/52 B28B23/02

B28B5/02 B32B13/02 B32B31/00

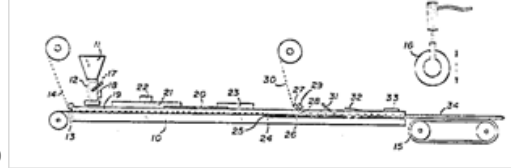
CPC: B28B23/0006

European: B28B23/00A

US: 118/56 156/324 156/346 156/42 156/73.6 264/257 264/279.1 264/70

264/71 425/122 425/456 427/346

PatBase - US4450022_A



Family:

Publication number	Publication date	Application number	Application date
CA1190463 A1	19850716	CA19830429407	19830601
EP0095943 A2	19831207	EP19830303162	19830601
EP0095943 A3	19850529	EP19830303162	19830601
EP0095943 B1	19871028	EP19830303162	19830601
JP1591262 C3	19901130	JP19830095910	19830601
JP2014883 B4	19900410	JP19830095910	19830601
JP58219009 A2	19831220	JP19830095910	19830601
US4450022 A	19840522	US19820383674	19820601

Priority:

US19820383674 19820601 CA19830429407 19830601

Probable Assignee: UNITED STATES GYPSUM CO

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

Assignee(s): UNITED STATES GYPSUM COMPANY ; YUU ESU JII CORP ; GALER RICHARD E

Inventor(s): (std): GALER RICHARD EUGENE ; RICHYAADO YUJJIN GEIRAA ; GALER RICHARD E

Inventor(s): RICHAAADO YUJJIN GEIRAA

Agent(s): MACRAE AND CO

Designated states: FR GB

Title: APPARATUS FOR PRODUCING REINFORCED CEMENTITIOUS PANEL WEBS

Abstract: An apparatus is described for the continuous production of glass fiber mesh reinforced concrete panels consisting of a layer of light weight concrete core mix bonded to a web of glass fiber mesh on each face. An uncured ribbon of reinforced concrete is first formed, suitable for cutting into individual panels. A new method of depositing the cement slurry or core mix on the web of fiber glass has been developed; this is accomplished by conveying the web over a reversely-turning pumping roller which transfers a controlled amount of slurry or core mix to the web.

Classifications:

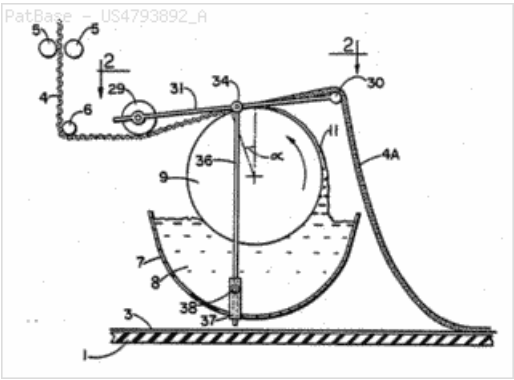
International (IPC 8-9): B28B19/00 B28B23/00 (Advanced/Invention); B28B19/00 B28B23/00 (Core/Invention)

International (IPC 1-7): B32B31/00

CPC: B28B19/0092 B28B23/0006 Y10T156/1727 Y10T156/1741 Y10T156/1798

European: B28B19/00K B28B23/00A

US: 118/246 156/324 156/42 156/549 156/555 156/578



Family:

Publication number	Publication date	Application number	Application date
US4793892 A	19881227	US19870104283	19870924

Priority:

US19870104283 19870924

Probable Assignee: CUSTOM BUILDING PRODUCTS INC

Assignee(s): (std): GLASCRETE INC

Assignee(s): GLASCRETE INC 1900 NORRIS ROAD BAKERSFIELD CA 93308 ; WELLS FARGO BANK NATIONAL ASSOCIATION ; BANK OF AMERICA NA AS COLLATERAL AGENT ; BANK OF AMERICA NA COLLATERAL AGENT AS ; CUSTOM BUILDING PRODUCTS INC

Inventor(s): (std): MILLER ROBERT G ; WALTER RICHARD J

Title: CEMENTITIOUS PANEL WITH BASALT FIBER REINFORCED MAJOR SURFACE(S)

Abstract: A cementitious panel having a basalt fiber-containing reinforcing web embedded in at least one major surface, preferably both major surfaces, of the panel. The basalt fibers-containing reinforcing webs preferably are in the form of a mesh or scrim comprising spaced basalt fiber strands in both the warp and fill directions, each strand made from a plurality of aligned, continuous basalt fibers. The basalt fiber reinforcing webs also can be in the form of woven or non-woven fabrics of basalt fibers, having aligned or randomly oriented staple and/or micro fibers, so long as the fabrics have sufficient void area to permit a cementitious core material to penetrate the fabric when the fabric is embedded in one or both major surfaces of the cementitious panel before the cementitious core material hardens.

Classifications:

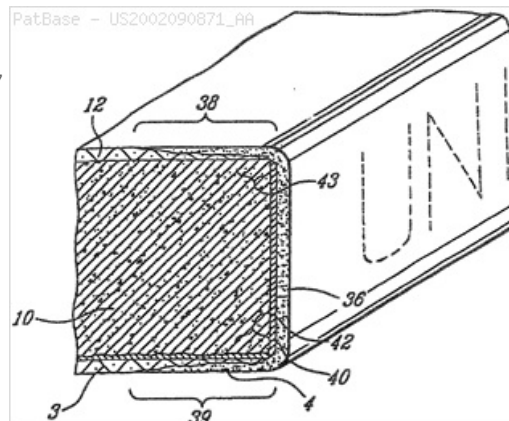
International (IPC 8-9): E04C2/04 (Advanced/Invention)

International (IPC 1-7): B32B13/02 E04C2/04

CPC: Y10T442/134 Y10T442/141 Y10T442/143 Y10T442/171 Y10T442/197 E04C2/043

European: E04C2/04C

US: 442/21 442/21S 442/25 442/25S 442/26 442/26S 442/42 442/42P 442/57 442/57S



Family:

Publication number	Publication date	Application number	Application date
AU2002224457 AA	20020429	AU20020224457	20011016
AU200224457 A1	20020429	AU20020024457	20011016
AU200224457 A5	20020429	AU20020024457	20011016
US2002090871 AA	20020711	US20010978868	20011016
WO233191 A1	20020425	WO2001US42778	20011016

Priority:

US20000241072P 20001017 US20010978868 20011016 WO2001US42778 20011016

Probable Assignee: NATIONAL GYPSUM PROPERTIES LLC

Assignee(s): (std): NAT GYPSUM PROPERTIES LLC

Assignee(s): NATIONAL GYPSUM PROPERTIES LLC ; NEW NGC INC ; BURKARD EDWARD A ; RITCHIE CHARLES STOKES ; NEW NGC INC D B A NATIONAL GYPSUM CO ; BANK OF AMERICA NA AS COLLATERAL AGENT ; BANK OF AMERICA NA COLLATERAL AGENT AS

Inventor(s): (std): BURKARD EDWARD A ; RITCHIE CHARLES STOKES

Inventor(s): CHARLES STOKES RITCHIE ; EDWARD A BURKARD

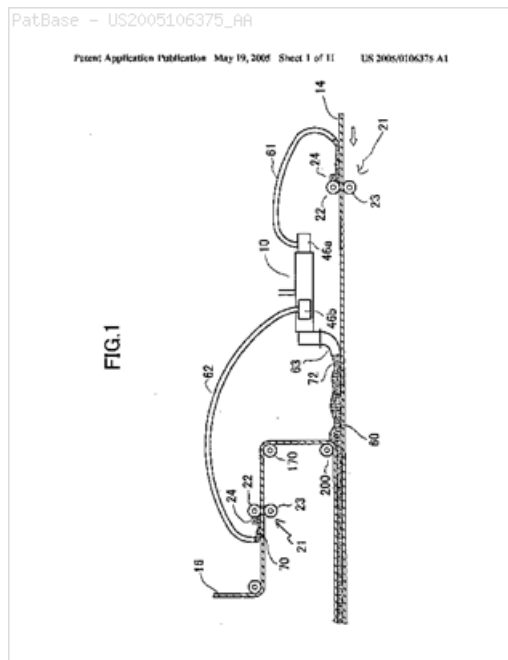
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PH PL PT RO RU SD SE SG SI SK SL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

Title: GYPSUM BOARD, AND METHOD OF MANUFACTURING THE GYPSUM BOARD

Abstract: There is provided a lightweight plaster board having a cellular porous plaster core, excellent in adhesion to a covering base paper for a plaster board, free from dry-out in side edge parts of the plaster board, and with no disadvantage in workability for driving a nail into the plaster board. The plaster board includes a plaster core having a front surface, a back surface, and four side surfaces, and at least one covering base paper that covers the front surface, the back surface, and the at least two opposite side surfaces of the plaster core. The plaster core includes one or more hard edge parts each including one of the side surfaces covered with the covering base paper, one or more high-density parts including the front surface or the back surface, not including the side surface covered with the covering base paper, and having a density substantially equal to the density of the hard edge part, and a low-density part having a density less than the densities of the hard edge part and the high-density part and contacting with the hard edge part and the high-density part. The hard edge part does not include a position in which a nail is driven.

Classifications:

International (IPC 8-9): C04B38/10 E04C2/04 B28B1/16 B28B1/30 B28B19/00 B28C5/08 B32B13/08 B32B3/00 B32B3/04 B32B37/24 B32B5/14 B32B7/02 C04B111/00 C04B111/30 C04B28/14 E04C2/16 E04C2/26 (Advanced/Invention); B32B13/08 C04B111/00 C04B111/30 (Advanced/Non-invention); B28B1/16 B28B1/30 B28B19/00 B28C5/00 B28C5/08 B32B13/00 B32B13/08 B32B3/00 B32B7/02 C04B28/00 C04B28/14 C04B38/10 E04C2/04 E04C2/10 (Core/Invention)
International (IPC 1-7): B05C 17/005 B05C17/005 B28B1/16 B28B19/00 B28C5/08 B32B13/02 B32B13/08 B32B7/02 C04B28/14 C04B38/10 E04C2/04
CPC: B28B19/0092 B28C5/0881 B32B7/02 C04B28/14 C04B2111/00474 C04B2111/0062 C04B2111/30 E04C2/043 B32B13/08
European: B28B19/00K B28C5/08G B32B13/08 B32B7/02 C04B28/14 E04C2/04C M04B111/00T M04B111/00T6B M04B111/30
US: 156/346 156/348 156/40 156/43 156/44 428/192 428/212 428/220 428/294.7 428/294.700P 428/312.4 428/312.400P

**Family:**

Publication number	Publication date	Application number	Application date
AU2003221132 AA	20031008	AU20030221132	20030325
AU2003221132 BB	20060810	AU20030221132	20030325
CA2479147 AA	20040913	CA20032479147	20030325
CA2479147 C	20081014	CA20032479147	20030325
CN100400280 C	20080709	CN20038007073	20030325
CN1642733 A	20050720	CN20038007073	20030325
DK1488920 T3	20180326	DK20030712937T	20030325
EP1488920 A1	20041222	EP20030712937	20030325
EP1488920 A4	20080827	EP20030712937	20030325
EP1488920 B1	20180117	EP20030712937	20030325
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IN244045 B	20101119	IN2004KN01360	20040914
JP2003080329 A1	20050721	JP20030578134T	20030325
JP2007247393 A2	20070927	JP20070099684	20070405
JP4503628 B2	20100714	JP20070099684	20070405
KR100621307 B1	20060913	KR20047015440	20030325
KR20040094890 A	20041110	KR20047015440	20030325
MXPA04009272 A1	20050125	MX2004PA09272	20030325
NO20044609 A	20041227	NO20040004609	20041026
NO20044609 L	20041227	NO20040004609	20041026
NO338625 B1	20160919	NO20040004609	20041026
RU2004131642 A	20050610	RU20040131642	20030325
RU2281860 C2	20060820	RU20040131642	20030325
TH53641 B	20170206	TH20031001079	20030324
TH62010 A	20040510	TH20031001079	20030324
TR201805251 T4	20180424	TR20180005251T	20030325
TW200402361 A	20040216	TW20030106491	20030324
TWI265087 B	20061101	TW20030106491	20030324
US2005106375 AA	20050519	US20040508885	20040923
US2006280932 AA	20061214	US20060508002	20060822
US7686902 BB	20100330	US20040508885	20040923
US7691467 BB	20100406	US20060508002	20060822

Priority:

JP20020089356	20020327	EP20030712937	20030325	JP20030578134	20030325
US20030508885	20030325	WO2003JP03652	20030325	US20040508885	20040923
US20060508002	20060822	JP20070099684	20070405		

Probable Assignee: YOSHINO GYPSUM CO LTD

Assignee(s): (std): JOSINO DZHIPSUM KO LTD ; KIMURA TATSUKAZU ; OSAWA KENICHIRO ; TANI HIROKUNI ; YOSHINO GYPSUM CO ; TSUNO NORIO ; YOSHINO GYPSUM CO LTD ; ISHIBASHI SEIGO

Assignee(s): JOSINO DZHIPSUM KO

Inventor(s): (std): HIROKUNI TANI ; ISHIBASHI SEIGO ; KENICHIRO OSAWA ; KIMURA TATSUKAZU ; NORIO TSUNO ; OSAWA KENICHIRO ; SEIGO ISHIBASHI ; TANI HIROKUNI ; TATSUKAZU KIMURA ; TSUNO NORIO ; TANI KOICHI ; KIMURA RYUICHI ; ISHIBASHI MASATAKA ; TANI KHIROKUNI ; OSAVA KENITIRO ; ISIBASI SEJGO

Agent(s): SPRUSON AND FERGUSON; MARKS AND CLERK; VINSOME REX MARTIN; CARVAJAL Y ISABEL; ITOH TADAHIKO; YUECEL YILMAZ; LADAS AND PARRY LLP

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

Title: METHOD AND APPARATUS FOR PRODUCING REINFORCED CEMENTIOUS PANEL WEBS

Abstract: A method is described for the continuous production of glass fiber mesh reinforced concrete panels consisting of a layer of light weight concrete core mix bonded to a web of glass fiber mesh on each face. An uncured ribbon of reinforced concrete is first formed, suitable for cutting into individual panels. A new method of depositing the cement slurry or core mix on the web of fiber glass has been developed; this is accomplished by conveying the web over a reversely-turning pumping roller which transfers a controlled amount of slurry or core mix to the web.

Classifications:

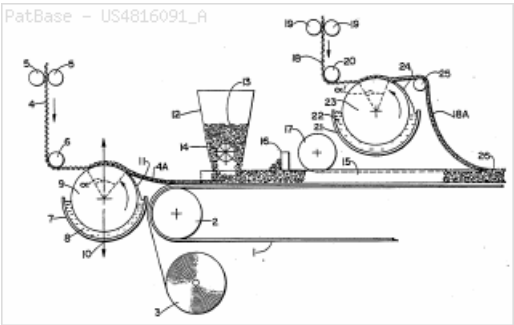
International (IPC 8-9): B28B19/00 B28B23/00 (Advanced/Invention); B28B19/00 B28B23/00 (Core/Invention)

International (IPC 1-7): B32B31/12

CPC: B28B19/0015 B28B19/0092 B28B23/0006 Y10T156/1727 Y10T442/133

European: B28B19/00B B28B19/00K B28B23/00A

US: 156/324 156/42 156/44 156/549 442/20



Family:

Publication number	Publication date	Application number	Application date
US4816091 A	19890328	US19870104284	19870924

Priority:

US19870104284 19870924

Probable Assignee: CUSTOM BUILDING PRODUCTS INC

Assignee(s): (std): MILLER ROBERT G

Assignee(s): WELLS FARGO BANK NATIONAL ASSOCIATION ; BANK OF AMERICA NA AS COLLATERAL AGENT ; BANK OF AMERICA NA COLLATERAL AGENT AS ; CUSTOM BUILDING PRODUCTS ; CUSTOM BUILDING PRODUCTS INC ; GLASCRETE INC

Inventor(s): (std): MILLER ROBERT G

Title: METHOD AND APPARATUS FOR FORMING EXPANDED FOAM ARTICLES

Abstract: A method and apparatus for forming foam articles is described. Thermoplastic resin beads containing a blowing agent are continually agitated in a heated pre-expansion chamber to a temperature near the fusion point of the beads and above the boiling point of the blowing agent at substantially atmospheric pressure. The beads soften and expand substantially in volume. A dry gaseous medium may be swept over the beads to remove moisture and any blowing agent which has escaped. Thereafter, the chamber is evacuated. Evacuation continues until a predetermined amount of blowing agent is removed from the beads. As a preferred embodiment of the invention, steam may be injected into the chamber prior to evacuation. This serves to further expand the beads, and facilitates the removal of the blowing agent. This embodiment also provides a means of manufacturing particularly stable low-density foam. The expanded beads, after they are restored to atmospheric pressure, are discharged to a storage facility and maintained at an elevated temperature for immediate use in a molding apparatus. The expanded hot beads may be fed directly by air injection conveyors to mold cavities and molded into the desired articles.

Classifications:

International (IPC 8-9): B29C44/00 B29C44/34 B29C59/00 B29C67/00 C08J3/20 C08J9/16 C08J9/22 (Advanced/Invention);

B29C44/00 B29C59/00 B29C67/00 (Advanced/Non-invention);
B29C44/00 B29C44/34 B29C59/00 B29C67/00 C08J3/20

C08J9/00 (Core/Invention)

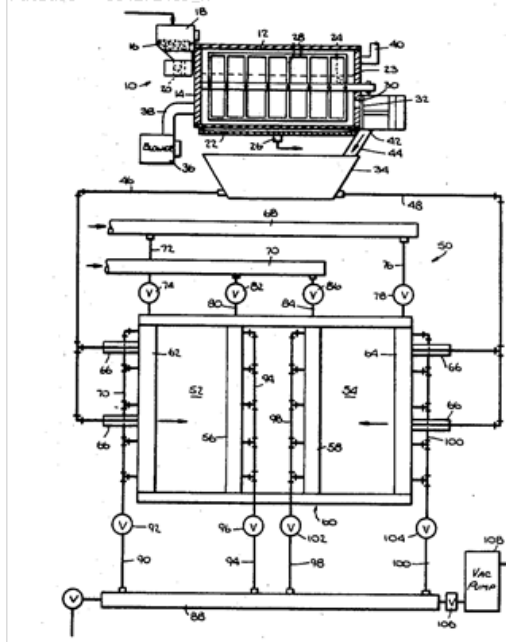
International (IPC 1-7): B29B1/0 B29B1/00 B29C67/20 B29D27/00 C08G C08J3/20 C08J9/22

CPC: B29C44/3461 Y10S264/09

European: B29C44/34H

US: 264/101 264/53 264/DIG.9 425/4R

PatBase - US4272469_A

**Family:**

Publication number	Publication date	Application number	Application date
AU198055328 A1	19810122	AU19800055328	19800207
AU536212 B2	19840419	AU19800055328	19800207
BE884378 A	19810119	BE19800201451	19800718
BR8000985 A	19810331	BR19800000985	19800215
CA1130968 A1	19820907	CA19800349273	19800408
DE3011519 A1	19810122	DE19803011519	19800325
DK219480 A	19810121	DK19800002194	19800520
ES490656 A0	19810216	ES19800490656	19800417
ES8102890 A1	19810216	ES19800490656	19800417
FI801390 A	19810121	FI19800001390	19800429
FR2461732 A1	19810206	FR19800009903	19800430
GB2055380 A1	19810304	GB19800002566	19800125
GB2055380 B2	19830921	GB19800002566	19800125
IE800185 L	19810120	IE19800000185	19800131
IL59308 A0	19800530	IL19800059308	19800204
IT1132060 A	19860625	IT19800022342	19800527
IT8022342 A0	19800527	IT19800022342	19800527
JP56017231 A2	19810219	JP19800037352	19800324
KR19830001991 A	19830521	KR19800000747	19800223
KR840000070 B1	19840208	KR19800000747	19800223
LU82398 A	19800731	LU19800082398	19800425
NL8004094 A	19810122	NL19800004094	19800716
NO800518 A	19810121	NO19800000518	19800225
PT70841 A	19800301	PT19800070841	19800215
SE8001031 A	19810121	SE19800001031D	19800208
SE8001031 L	19810121	SE19800001031	19800208
US4272469 A	19810609	US19790059392	19790720
ZA8000451 A	19810128	ZA19800000451	19800125

Priority:

US19780899997 19780425
US19790059392 19790720

US19790008688 19790130
CA19800349273 19800408

US19790015431 19790226

Probable Assignee: INTEGRATED INSULATION SYSTEMS

Assignee(s): (std): CELLOFOAM A G ; CELLOFOAM A G TE LUZERN ZWITSERLAND ; CELLOFOAM AG ; INTEGRATED INSULATION SYSTEMS ; SEROFUOUMU AG

Assignee(s): SMITH STUART B ; INTEGRATED INSULATION SYSTEMS INC

Inventor(s): (std): CONYERS C ; S B SMITH ; SB SMITH ; SMITH S ; SMITH S B ; SMITH STUART B ; STUART B SMITH ; SUCHIAATO BII SUMISU

Inventor(s): B SMITH STUART

Agent(s): MADDERNS; MADDERNS PATENT AND TRADE MARK ATTORNEYS; GOWLING LAFLEUR HENDERSON LLP

Title: Expandable polystyrene particles

Abstract: PCT No. PCT/EP97/02362 Sec. 371 Date Nov. 12, 1998 Sec. 102(e) Date Nov. 12, 1998 PCT Filed May 7, 1997 PCT Pub. No. WO97/43334 PCT Pub. Date Nov. 20, 1997 The present invention relates to expandable polystyrene beads containing blowing agent which are coated with from 0.01 to 0.5 percent by weight of a hydrophobicizing agent which melts above 25 DEG C. and has a mean particle size of less than 100 mu m. The beads can be converted into foam moldings having reduced water absorption capacity.

Classifications:

International (IPC 8-9): B65D81/02 C08J9/16 C08J9/224 C08J9/232 C08L25/06 E04D13/16 (Advanced/Invention); B65D81/02 C08J9/00 E04D13/16 (Core/Invention)

International (IPC 1-7): B65D65/42 C08J C08J25/06 C08J5/00 C08J7/04 C08J9/18 C08J9/224 C08L25/06 E04D13/16

CPC: B65D81/022 C08J9/224 C08J2325/04 E04D13/1668

European: B65D81/02A C08J9/224 E04D13/16A4 M08J325/04

US: 106/122 521/57

Family:

Publication number	Publication date	Application number	Application date
AT213260 E	20020215	AT19970923024T	19970507
AU199728944 A1	19971205	AU19970028944	19970507
CA2255591 AA	19981113	CA19972255591	19970507
CA2255591 C	20060711	CA19972255591	19970507
CN1070207 C	20010829	CN19971094631	19970507
CN1218487 A	19990602	CN19971094631	19970507
DE19619397 A1	19971120	DE19961019397	19960514
DE59706390 D1	20020321	DE19975006390	19970507
EP0898593 A1	19990303	EP19970923024	19970507
EP0898593 B1	20020213	EP19970923024	19970507
ES2172787 T3	20021001	ES19970923024T	19970507
JP2000510182 T2	20000808	JP19970540488T	19970507
JP3886154 B2	20070228	JP19970540488T	19970507
NO313639 B1	20021104	NO19980005295	19981113
NO985295 A	19981113	NO19980005295	19981113
NO985295 A0	19981113	NO19980005295	19981113
US5985943 A	19991116	US19980147246	19981112
WO9743334 A1	19971120	WO1997EP02362	19970507

Priority:

DE19961019397 19960514 DE19975006390 19970507 WO1997EP02362 19970507

Probable Assignee: BASF SE

Assignee(s): (std): HAHN KLAUS ; STEINBRECHER HORST ; NAEGELE DIETER ; LOEFFLER ACHIM ; SCHMITT HAGEN ; REICHERT JUERGEN ; BASF CORP ; BASF SE ; GUERTLER MANFRED ; BASF AG

Assignee(s): BASF AG 67063 LUDWIGSHAFEN DE ; BASF AKTIENGESSELLSCHAFT ; GURTLER MANFRED ; LOFFLER ACHIM ; REICHERT JURGEN

Inventor(s): (std): GURTLER MANFRED ; H STEINBRECHER ; HAGEN SCHMITT ; HAHN K ; HAHN KLAUS ; HAHN KLAUS DR ; HORST STEINBRECHER ; JURGEN REICHERT ; K HAHN ; K KAHN ; KAHN K ; KLAUS HAHN ; L FFLER ACHIM ; LOEFFLER ACHIM ; LOEFFLER ACHIM DR ; LOFFLER ACHIM ; MANFRED GURTLER ; NAEGELE D ; NAEGELE DIETER ; NAEGELE DIETER DR ; ACHIM LOFFLER ; D NAEGELE ; DIETER NAEGELE ; REICHERT JUERGEN ; REICHERT JUERGEN DR ; REICHERT JURGEN ; SCHMITT HAGEN ; GUERTLER MANFRED ; STEINBRECHER H ; STEINBRECHER HORST ; REICHERT JURGEN ; GURTLER MANFRED

Inventor(s): L 247 FFLER ACHIM ; STEINBRECHER HORST 67354 ROEMERBERG DE ; GUERTLER MANFRED 68309 MANNHEIM DE ; SCHMITT HAGEN 67067 LUDWIGSHAFEN DE ; GURTLER MANFRED ; REICHERT JURGEN

Agent(s): ROBIC

Designated states: AM AT AU AZ BE BG BR BY CA CH CN CZ DE DK ES FI FR GB GE GR HU IE IL IT JP KG KR KZ LU LV MC MD MX NL NO NZ PL PT RO RU SE SG SI SK TJ TM TR UA US

Title: COATING COMPOSITION FOR THERMOPLASTIC RESIN PARTICLES FOR FORMING FOAM CONTAINERS

Abstract: Expandable or pre-expanded thermoplastic particles, e.g. polystyrene particles, used to form foam containers e.g. cups, bowls, are coated with a coating composition comprising a liquid part consisting of a) liquid polyethylene glycol with an average molecular weight of 200 to 800; and a solid part comprising components selected from the group consisting of b) polyolefin wax, e.g. polyethylene wax, c) a metal salt of higher fatty acids, e.g. zinc stearate or calcium stearate; d) polyethylene glycol with an average molecular weight of 900 to 10,000; and e) a fatty bisamide or fatty amide, e.g. ethylene bis-stearamide; and combinations of b) through e). The coating composition prevents or resists leakage of liquids and foods with oil and/or fatty components and improves the rim strength and ATF properties of foam containers.

Classifications:

International (IPC 8-9): A23L3/00 B01D67/00 B27N5/02 B29B9/16 B29C44/00 B29C44/08 B29C67/20 B32B5/16 B65D1/10 C08J3/12 C08J7/04 C08J9/16 C08J9/22 C08J9/224 C08J9/228 C08K5/01 C08K5/05 C08K5/053 C08L1/00 C08L112/08 C08L25/00 C08L91/06 C08L93/00 C09D123/00 C09D123/06 C09D123/12 C09D125/00 C09D129/12 C09D171/02 C09D191/06 C09D201/00 C09D201/08 C09D7/12 (Advanced/Invention); B29L22/00 C08J3/12 C09D201/08 (Advanced/Non-invention); C09D201/02 (Core/Non-invention); C08J (Subclass/Invention)

International (IPC 1-7): B32B5/16 C06J C08J C08J0/00 C08J3/12 C08L1/00 C08L91/06 C08L93/00 C09D201/08

CPC: Y10T428/2982 Y10T428/2991 Y10T428/2998 C08J9/224 C08J7/047 C08J2325/02 C08J2423/00 C08J2471/00 C08J2491/00

European: C08J7/04L C08J7/04L23 C08J7/04L71 C08J9/224 M08J325/02 M08J423/00 M08J471/00 M08J491/00

US: 264/109 264/109S 264/48 264/48P 264/49 264/49P 264/55 264/55P 428/402 428/402S 428/403 428/403S 428/407 428/407S 521/114 521/124 521/125 521/146 521/53 521/54 521/55 521/56 521/57 521/76 524/210 524/322 524/322S 524/386 524/386S 524/394 524/394S 524/487 524/487S

Family:

Publication number	Publication date	Application number	Application date
AU2004209027 AA	20040819	AU20040209027	20040131
AU2004209027 BB	20090611	AU20040209027	20040131
BRPI0407204 A	20060124	BR2004PI07204	20040131
BRPI0407204 B1	20140909	BR2004PI07204	20040131
CA2514285 AA	20050722	CA20042514285	20040131
CA2514285 C	20130108	CA20042514285	20040131
CN1331659 C	20070815	CN200480005590	20040131
CN1756652 A	20060405	CN200480005590	20040131
EP1590172 A2	20051102	EP20040707167	20040131
EP1590172 A4	20060329	EP20040707167	20040131
IN01493KN2005 A	20060825	IN2005KN01493	20050729
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JP2006518795 T2	20060817	JP20060503252T	20040131
JP4833829 B2	20111207	JP20060503252T	20040131
KR20050105997 A	20051108	KR20057014285	20040131
MXPA05008176 A1	20051005	MX2005PA08176	20040131
RU2005127594 A	20060127	RU20050127594	20040131
RU2328510 C2	20080710	RU20050127594	20040131
US2004220303 AA	20041104	US20040769349	20040131
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US2010213631 AA	20100826	US20100769716	20100429
US2010308486 AA	20101209	US20100859519	20100819
US2011109004 AA	20110512	US20110004062	20110111
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US7736740 BB	20100615	US20060480591	20060703
US7785711 BA	20100831	US20100769716	20100429
US7892645 BB	20110222	US20100859519	20100819
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WO04069901 A2	20040819	WO2004US02926	20040131
WO04069901 A3	20050512	WO2004US02926	20040131

Priority:

US20030444897	20030204	US20030444897P	20030204	US20040769349	20040131
WO2004US02926	20040131	US20060480591	20060703	US20100769716	20100429
US20100859519	20100819	US20110004062	20110111		

Probable Assignee: NOVA CHEMICALS INC

Assignee(s): (std): NOVA CHEM INC ; NOVA CHEMICALS INC ; NOVA KEMIKALZ INK ; PIISPANEN DENNIS H ; TANG JIANSHENG ; WILLIAMS MICHAEL T ; COWAN DAVID A

Assignee(s): COWAN DAVID ALLEN

Inventor(s): (std): COWAN DAVID A ; COWAN DAVID ALLEN ; DENNIS H PIISPANEN ; PIISPANEN DENNIS H ; PIISPANEN DENNIS H ; TANG JIANSHENG ; TANG JIANSHENG ; TANG JIANSHENG COWAN DAVID ALL ; WILLIAMS MICHAEL T ; UILL JAMS MAJKL T ; TAN TSZJAN SHEHN ; PIISPANEN DENNIS KH ; KAUEHN DEHVID ALLEN

Inventor(s): TANG JIANSHENG COWAN DAVID ALLEN PIISPANEN DENNISH ; UILL JAMS MAJKL T. ; WILLIAMS MICHAEL ; TAN TSZJAN SHEHN ; PIISPANEN DENNIS ; JIANSHENG TANG ; MICHAEL T WILLIAMS ; DAVID ALLEN COWAN ; COWAN DAVID

Agent(s): DAVIES COLLISON CAVE PTY LTD; DAVIES COLLISON CAVE; TROTT TREVOR; KANAYAMA MASATAKA; TSUBOKURA MICHIAKI; OSAKI KATSUMASA; KAWAGUCHI YOSHIO; ONO MAKOTO; SUZANNE KIKEL; NOVA CHEMICALS INC KAREN S LOCKHART; SUZANNE; GARY F

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ

LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU
SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: PROCESS FOR EXPANDING POLYSTYRENE

Abstract: The present invention relates to expanded or blown polystyrene adapted for making articles such as blocks, slabs and shaped pieces and particularly to an improved process for expanding the granules of polystyrene preparatory to the manufacture of articles therefrom.

Classifications:

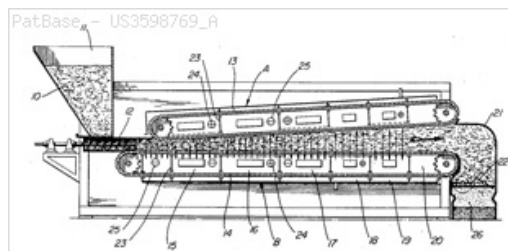
International (IPC 8-9): B29C44/00 B29C44/34 B29C59/00 B29C67/00 C08J9/16 C08J9/22 C08J9/228 (Advanced/Invention); B29C44/00 B29C44/34 B29C59/00 B29C67/00 C08J9/00 (Core/Invention)

International (IPC 1-7): B27B11/08 B29B1/00 B29B3/00 B29D27/00 B39A27/00 C08F33/02 C08F47/00 C08F47/02 C08F47/08 C08F47/10 C08J1/18 C08J9/12 C08J9/22 F26B19/00

CPC: C08J9/22 Y10S264/09 C08J2325/00 C08J9/228 B29C44/3461 C08J2325/06

European: B29C44/34H C08J9/22 C08J9/228 M08J325/00 M08J325/06

US: 260/0.2.5B 260/2.5 264/51 264/DIG.9 34/21.7 34/217 34/236 34/65 425/200 425/371 425/407 425/4C 425/4R 425/817C 425/817R 521/146 521/50 521/58 521/98 528/503



Family:

Publication number	Publication date	Application number	Application date
AT298042 B	19720425	AT19650010369	19651117
AT310432 B	19730925	AT19680007020	19680719
AU196842201 A1	19700219	AU19680042201	19680816
AU196842206 A1	19700219	AU19680042206	19680816
AU206842201 A1	19700219	AU19680042201	19680816
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BE679068 A	19661005		19660405
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BE723723 A	19690512		00000000
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BR6678680 A0	19731227	BR19660178680	19660413
CA923263 A1	19730327	CA19680033304	19681023
CH452192 A	19680531	CH19660005362	19660414
CH491974 A	19700615	CH19680017027	19681114
DE1629322 A1	19700903	DE19661629322	19660405
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DE1911511 C3	19790322	DE19691911511	19690306
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ES360271 A1	19701001	ES19680360271	19681114
ES360272 A2	19700701	ES19680360272	19681114
FI46131 B	19721002	FI19650003107	19651228
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FR1440075 A	19660527	FR19650013184	19650414
FR1552124 A	19690103		00000000
FR93618 E	19690425	FR19670128060	19671114
FR94246 E	19690718	FR19680145567	19680327
GB1082630 A	19670906	GB19660014561	19660401
GB1228450 A	19710415		00000000
GB1245447 A	19710908	GB19680050005	19681022
GB1263340 A	19720209	GB19690009428	19690221
IE32389 B	19730711	IE19680001161	19680927
IE32389 L	19690514	IE19680001161	19680927
IE33105 B	19740320	IE19680001276	19681024
IE33105 L	19690514	IE19680001276	19681024
JP49042913 B4	19741118	JP19660000832	19660107
LU50867 A	19661010	LU19660050867	19660408
LU57299 A	19690704		00000000
LU57300 A	19690704		00000000
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NL161482 B	19790917	NL19680013408	19680919
NL161482 C	19800215	NL19680013408	19680919
NL6604169 A	19661017	NL19660004169	19660330
NL6813256 A	19690519	NL19680013256	19680917
NL6813408 A	19690519	NL19680013408	19680919

■ NL6904441 A	19690930	NL19690004441	19690321
■ NO131919 B	19750520	NO19660161253	19660114
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■ SE316015 B	19691013	SE19660000838	19660121
■ SE365455 B	19740328	SE19680010658	19680807
■ US3598769 A	19710810		19660413
■ US3723362 A	19730327		00000000
■ US3738020 A	19730612		19700908

Priority:

FR19650013184 19650414 US19660542363 19660413 FR19670128060 19671114
FR19670128061 19671114 FR19680145567 19680327

Probable Assignee: SAINT GOBAIN

Assignee(s): (std): CIE DE SAINT GOBAIN ; DE SAINT GOBAIN NEUILLY SURSEINE FRANKR COMP ; SAINT GOBAIN

Assignee(s): SAINT GOBAIN COMPAGNIE DE ; DE SAINT GOBAIN CO FR ; SAINT GOBAIN FR ; SAINT GOBAIN INDUSTRIES NEUILLY SUR SEINE FRANKREICH ; DE SAINT GOBAIN COMP ; JEAN BATTIGELLI ; DE SAINT GOBAIN NEUILLY SUR SEINE FRANKRIJK COMP ; DE SAINT GOBAIN SOC ANONYME NEUILLY SUR SEINE FRANKRIJK COMP ; SAINT GOBAIN COMP DE ; SAINT GOBAIN IND ; CO DE SAINT GOBAIN FR ; COMPAGNIE DE SAINT GOBAIN ; COMPAGNIE DE SAINT GOBAIN NEUILLY SUR SEINE FRANKR ; COMPAGNIE DE SAINT GOBAIN NEUILLY SUR SEINE FRANKRIJK ; COMPAGNIE DE SAINT GOBAIN SOCIETE ANONYME NEUILLY SUR SEINE FRANKRIJK ; COMPAGNIE DE SAINT-GOBAIN NEUILLY-SURSEINE (FRANKREICH) ; DE SAINT GOBAIN CO

Inventor(s): (std): DANIEL HANTON ; HANTON DANIEL ; HANTON DANIEL LA NEUVILLE ROY SEINE ET OISE ; JEAN BATTIGELLI ; HANTON D ; HANTON ; BATTIGELLI JEAN ; BATTIGELLI J

Inventor(s): CIE DE SAINT GOBAIN ; BATTIGELLI J FR ; BATTIGELLI JEAN RANTIGNY OISE FRANKREICH ; JEAN BOTTICELLI ; HANTON D FR

Title: SUBSTANTIALLY STATIC-FREE, CELLULAR EXPANDED OR FOAMED THERMOPLASTIC ARTICLES, INCLUDING CUPS AND CONTAINERS, AND PROCESSES FOR THE MANUFACTURE OF THESE ARTICLES INCLUDING THE MANUFACTURE OF INTERMEDIATE MATERIALS SUITABLE FOR USE IN SUCH MANUFACTURE

Abstract: Substantially static-free, cellular expanded or foamed thermoplastic articles, including cups and containers, and processes for the manufacture of these articles including the manufacture of intermediate materials suitable for use in such manufacture.

Classifications:

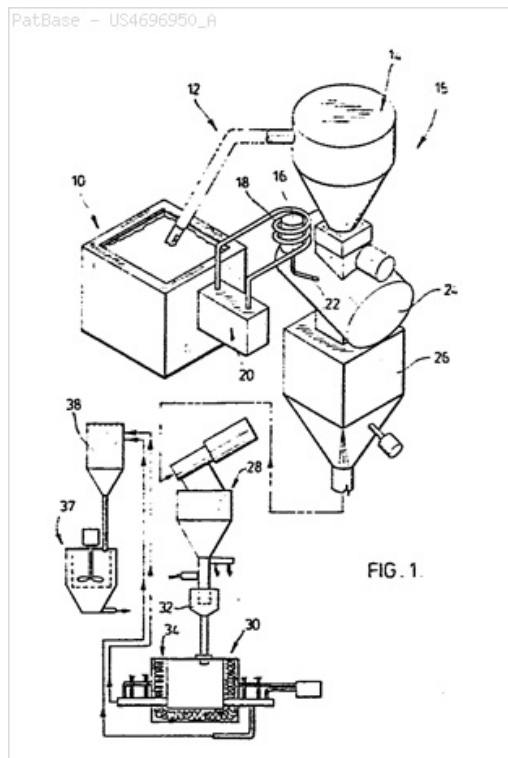
International (IPC 8-9): B29C44/44 C08J9/00 C08J9/22 C08J9/224 C08K5/00 C08K5/10 C08K5/17 C08K5/20 C08K5/32 C08K5/34 C08K5/3442 C08K5/41 C08K5/42 C08L101/00 C08L9/00 C08L91/00 C09K3/16 (Advanced/Invention); B29C44/34 C08J9/00 C08K5/00 C08L101/00 C08L9/00 C08L91/00 C09K3/16 (Core/Invention)

International (IPC 1-7): C08J9/00 C08J9/22 C08J9/24 C08K5/00 C08K5/10 C08K5/17 C08K5/20 C08K5/32 C08K5/34 C08K5/42 C08L101/00 C08L9/00 C09K3/16

CPC: Y10S264/09 Y10S264/10 C08K5/0075 B29C44/445 B29K2105/0008 C08J9/224 Y10T428/1376 Y10T428/2991 Y10T428/249922

European: B29C44/44B C08J9/224 C08K5/00P9 L29K105/00E2

US: 264/53 264/DIG.10 264/DIG.9 427/222 428/222 428/35 428/36.5 428/403 521/57



Family:

Publication number	Publication date	Application number	Application date
AT53601 E	19900615	AT19830307825T	19831221
CA1203950 A1	19860429	CA19820418528	19821223
DE3381640 D1	19900719	DE19833381640	19831221
EP0114503 A2	19840801	EP19830307825	19831221
EP0114503 A3	19841003	EP19830307825	19831221
EP0114503 B1	19900613	EP19830307825	19831221
IE56837 B	19920101	IE19830003050	19831222
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JP62297358 A2	19871224	JP19860139407	19860617
US4696950 A	19870929	US19850807812	19851211
US4771081 A	19880913	US19870005090	19870120
US4808448 A	19890228	US19850807811	19851211

Priority:

CA19820418528 19821223 EP19830307825 19831221

Probable Assignee: CITY LINK GROUP LIMITED

Assignee(s): (std): CITY LINK GROUP LIMITED ; CITY LINK GROUP LTD ; ROBOSERVE LTD ; ROBOSERVE LTD

Assignee(s): ROBOSERVE LIMITED ; CITY LINK GROUP LTD PERIVALE GB ; CITYLINK GROUP LTD ; COX HAROLD S ; ROBOSAABU LTD

Inventor(s): (std): HARORUDO SHIDONII KOTSUKUSU ; COX HAROLD SIDNEY ; COX HAROLD S

Inventor(s): COX HAROLD SIDNEY BEACONSFIELD BUCKS

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

Title: WALLBOARD CONTAINING SCRIM AND MATT

Abstract: Cement wallboards and methods for their preparation are disclosed. The wallboards comprise two scrim layers and one mat layer. The wallboards have a smooth surface, are strong, lightweight, and easy to score and snap. Tiles can be readily adhered to the boards. The wallboards can be used in general commercial and residential construction, and are particularly attractive for use in high water/moisture areas such as bathrooms and shower enclosures.

Classifications:

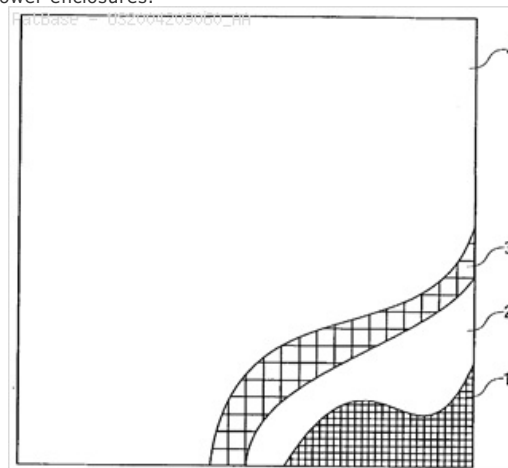
International (IPC 8-9): B28B19/00 B28B23/00 B32B11/02 B32B11/10 B32B13/02 B32B13/14 B32B17/02 B32B17/12 B32B27/04 B32B27/12 B32B5/26 C04B28/04 E04C2/04 (Advanced/Invention); B28B19/00 B28B23/00 B32B11/00 B32B13/00 B32B17/02 B32B17/12 B32B27/04 B32B27/12 B32B5/22 C04B28/00 E04C2/04 (Core/Invention)

International (IPC 1-7): B32B11/02 B32B11/10 B32B13/02 B32B13/14 B32B17/02 B32B17/12 B32B27/04 B32B27/12 B32B5/26 B32B9/00

CPC: Y10T428/2419 Y10T428/24777 Y10T428/252 B28B19/0092 B28B23/0087 C04B28/04 C04B2111/00612 Y10T442/102 Y10T442/133 Y10T442/14 Y10T442/143 Y10T442/148 Y10T442/153 Y10T442/159 Y10T442/171 Y10T442/172 Y10T442/174 Y10T442/176 Y10T442/2926 Y10T442/2934 Y10T442/2992 Y02W30/92 Y10T428/249932 B32B13/02 B32B2307/546 B32B2307/718 B32B2607/00 B32B13/14 E04C2/043

European: B28B19/00K B28B23/00Z1 B32B13/14 C04B28/04 E04C2/04C M04B111/00T6

US: 156/39 156/39S 428/121 428/192 428/220 428/294.7 428/294.700P 428/325 428/325S 428/428 428/428S 442/172 442/173 442/180 442/2 442/20 442/24 442/26 442/29 442/32 442/35 442/42 442/43 442/44 442/45



Family:

Publication number	Publication date	Application number	Application date
CA2522347 AA	20051014	CA20042522347	20040407
EP1613467 A1	20060111	EP20040759207	20040407
EP1613467 A4	20070404	EP20040759207	20040407
MXPA05011058 A1	20060418	MX2005PA11058	20040407
US2004209060 AA	20041021	US20030249507	20030415
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WO04091903 A1	20041028	WO2004US10684	20040407

Priority:

US20030249507 20030415 WO2004US10684 20040407

Probable Assignee: NATIONAL GYPSUM PROPERTIES LLC

Assignee(s): (std): MCGRADY MICHAEL J ; NAT GYPSUM PROPERTIES LLC ; ROBERTSON CRAIG C ; NATIONAL GYPSUM PROPERTIES LLC

Assignee(s): NEW NGC INC D B A NATIONAL GYPSUM CO ; BANK OF AMERICA NA ; BANK OF AMERICA NA AS COLLATERAL AGENT ; BANK OF AMERICA NA COLLATERAL AGENT AS ; NEW NGC INC

Inventor(s): (std): MCGRADY MICHAEL J ; ROBERTSON CRAIG C

Agent(s): OSLER HOSKIN AND HARCOURT LLP; ICE MILLER

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

Title: Apparatus for manufacturing multi-layered concrete roof tiles

Abstract: An apparatus for manufacturing concrete roof tiles by extrusion includes a coating system adapted to be supplied with green concrete and to apply a continuous layer of green concrete onto a continuous strand of movable, positively advanced bottom molds (14), a compacting roll (25) and a smoothing member (35) immediately downstream thereof in the manufacturing direction for compacting and possibly shaping the basic green concrete layer passing therebeneath on the bottom molds. There is provided downstream-as viewed in the manufacturing direction-of the smoothing member (35) for the basic layer (17) and separated therefrom by a gap (40) extending transversely to the manufacturing direction, at least a further smoothing member (45) for another layer, especially a cover layer (18), to be applied onto the basic layer (17). The material for said other layer is supplied under pressure through the gap (40).

Classifications:

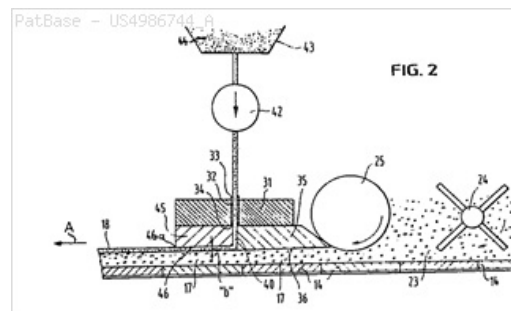
International (IPC 8-9): B28B1/16 B28B1/29 B28B11/04 B28B19/00 B28B3/12 B28B5/02 (Advanced/Invention); B28B1/00 B28B1/16 B28B11/04 B28B19/00 B28B3/00 B28B5/00 (Core/Invention)

International (IPC 1-7): B20B19/00 B28B1/29 B28B11/08 B28B11/4 B28B13/02 B28B19/0 B28B3/12 B28B3/20 B28B5/02 B28B5/04 B29C47/06 B32B13/00 E04D1/28 E04D1/36 E04D3/35

CPC: B28B1/16 B28B1/29 B28B3/123 B28B5/028 B28B11/04 B28B19/00

European: B28B1/16 B28B1/29 B28B11/04 B28B19/00 B28B3/12 B28B5/02C4

US: 425/104 425/132 425/133.5 425/134 425/461 425/94 425/99



Family:

Publication number	Publication date	Application number	Application date
AT85769 E	19930315	AT19880116569T	19881006
AU198823553 A1	19890921	AU19880023553	19881007
AU616433 B2	19911031	AU19880023553	19881007
DE3809162 A1	19890928	DE19883809162	19880318
DE3878555 D1	19930325	DE19883878555	19881006
DK171733 B1	19970421	DK19880005553	19881004
DK555388 A	19890919	DK19880005553	19881004
DK555388 A0	19881004	DK19880005553	19881004
EP0332737 A2	19890920	EP19880116569	19881006
EP0332737 A3	19900711	EP19880116569	19881006
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ES2038267 T3	19930716	ES19880116569T	19881006
HU202435 B	19910328	HU19880005222	19881007
HU52192 A2	19900628	HU19880005222	19881007
JP1301205 A2	19891205	JP19880253607	19881007
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US4986744 A	19910122	US19880253533	19881005

Priority:

DE19883809162 19880318 DE19883878555 19881006 EP19880116569 19881006

Probable Assignee: BRAAS DACHSYSTEME GMBH

Assignee(s): (std): BRAAS GMBH ; BRAAS AND CO GMBH ; BURAASU AND CO GMBH

Assignee(s): REDLAND ENGINEERING LTD ; BRAAS AND CO GMBH 6370 OBERURSEL DE ; BRAAS DACHSYSTEME GMBH ; BRAAS GMBH 6370 OBERURSEL DE ; BRAAS UND CO GMBH ; BRAAS UND CO GMBH DE ; BRASS GMBH ; LAFARGE BRAAS TECHNICAL CENTERS GMBH

Inventor(s): (std): JOEST GUENTER ; GIYUNTERU IESUTO ; GUENTER JOEST ; JOST GUNTER ; MANFURETSUDO BAISUBAIRAA ; WEISWEILER MANFRED

Inventor(s): WEISWEILER MANFRED 6072 DREIEICHENHAIN DE ; WEISWEILER MANFRED DE ; WEISWEILER MANFRED W 6072 DREIEICHENHAIN DE ; MANFRED WEISWEILER ; GUNTER JOST ; JOEST GUENTER 6054 RODGAU DE ; JOEST GUENTER DE ; JOEST GUENTER W 6054 RODGAU DE

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD

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

Title: CEMENTITIOUS PANEL WITH REINFORCED EDGES

Abstract: A cementitious panel comprising a cementitious core which is fabric-reinforced at the surface thereof and whose longitudinal edges are reinforced by a network of fibers. A panel may be obtained wherein the surface edge reinforcement layers are relatively strong and hard such that a nail or screw may be driven through the edge of panel without pre-drilling and without breaking, even when nailed or screwed almost at the very limit of the edge of the panel. Such a panel may provide a long lasting substrate for humid or wet areas such as shower rooms and bath rooms.

Classifications:

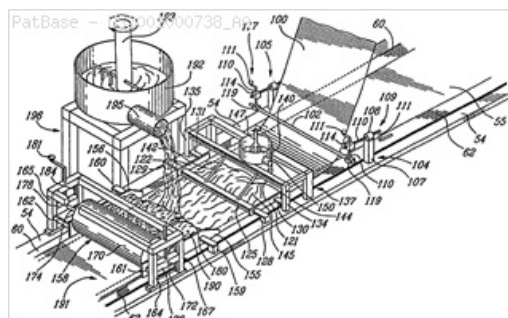
International (IPC 8-9): B28B19/00 B28B23/02 B28B23/18 E04C2/04 E04C2/26 (Advanced/Invention); B28B23/02 (Advanced/Non-invention)

International (IPC 1-7): B28B19/00 B28B23/02 B28B23/18 B32B1/04 B32B13/14 B32B31/06 B32B31/08 E04C2/04 E04C2/26

CPC: Y10T156/1011 Y10T428/232 Y10T428/24174 Y10T428/24198 Y10T428/24777 B28B19/0092 E04C2/043 Y10T442/665

European: B28B19/00K E04C2/04C

US: 156/202 156/346 156/348 156/40 156/42 156/42S 156/43 156/44 428/119 428/122 428/192 428/70 428/703 428/70P 442/386 52/601 52/800.12

**Family:**

Publication number	Publication date	Application number	Application date
AT227795 E	20021115	AT19980942421T	19980909
AU19980577 A1	19990405	AU19980090577	19980909
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CA2211984 C	20021105	CA19972211984	19970912
CN1111631 C	20030618	CN19988010902	19980909
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CZ20000897 A3	20010214	CZ20000000897	19980909
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PL197858 B1	20080530	PL19980339262	19980909
PL339262 A1	20001204	PL19980339262	19980909
PT1012422 T	20030430	PT19980942421T	19980909
US2001000738 AA	20010503	US20000740304	20001218
US6187409 BA	20010213	US19980049915	19980330
US6488792 BB	20021203	US20000740304	20001218
WO9914449 A1	19990325	WO1998CA00851	19980909

Priority:

CA19972211984 19970912 US19980049915 19980330 WO1998CA00851 19980909
US20000740304 20001218

Probable Assignee: NATIONAL GYPSUM PROPERTIES LLC**Assignee(s):** (std): MATHIEU MARC ANDRE ; NAT GYPSUM CO ; NAT GYPSUM INC ; NAT GYPSUM PROPERTIES ; NAT GYPSUM PROPERTIES LLC ; NATIONAL GYPSUM CO ; NATIONAL GYPSUM PROPERTIES LLC ; UNIFIX INC**Assignee(s):** NEW NGC INC ; NEW NGC INC D B A NATIONAL GYPSUM CO ; NATIONAL GYPSUM PROPERTIES LCC ; NATIONAL GYPSUM CO A DELAWARE CORP ; NATIONAL GYPSUM COMPANY ; NATIONAL GYPSUM CO CHARLOTTE ; NATIONAL GYPSUM PROPERTIES ; BANK OF AMERICA NA ; BANK OF AMERICA NA COLLATERAL AGENT AS ; NATIONAL GYPSUM INC**Inventor(s):** (std): MATHIEU MARC ANDRE ; MATHIEU MARC ANDR ; MATHIEU M A ; MARC ANDRE MATHIEU ; MATHIEU MARC ANDR EACUTE**Inventor(s):** M A MATHIEU**Agent(s):** SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; MCFADDEN FINCHAM; OSLER HOSKIN AND HARCOURT LLP; SANFORD TCOLB AND CO**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 GW HR 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 UZ VN YU ZW

Title: PROCESS FOR PROCESSING EXPANDABLE POLYMER PARTICLES AND FOAM ARTICLE THEREOF

Abstract: Process for processing expandable polymer particles e.g. polystyrene (EPS) that eliminates the maturing step between the pre-expander and molding steps. The expandable particles are first over pressurized with gas, e.g. air, carbon dioxide, nitrogen, and mixtures thereof, at a pressure between 500 and 8000 kPa and a temperature between -20 degrees centigrade and 130 degrees centigrade for 15 to 7200 minutes to create a gas pressure in the particles. Using the gas pressure in the particles, pre-expanding the particles with a heating medium, e.g. steam at a temperature between 100 degrees centigrade and 120 degrees centigrade and at a pressure ranging above atmospheric pressure and below the gas pressure in said particles, i.e. 50 to 200 kPa for 5 to 120 seconds. The pre-expanded particles are air dried in the pre-expander while holding a positive pressure in the particles; are optionally transferred to a pressure silo; and then are transferred to a molding machine where the gas pressure in the particles is used to form a foam article.

Classifications:

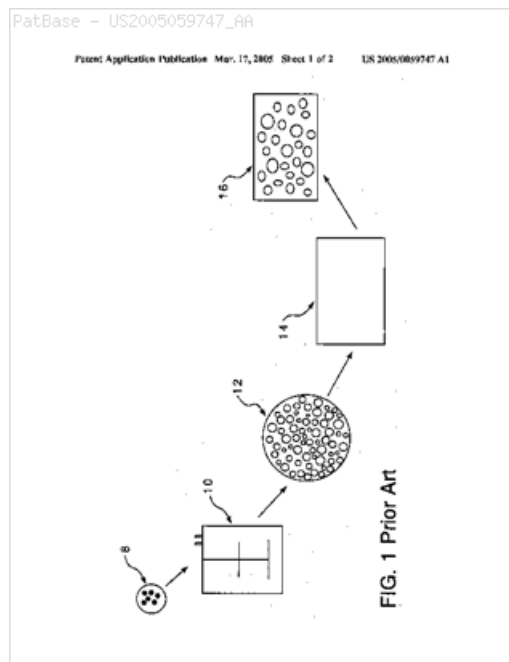
International (IPC 8-9): B29C44/00 B29C44/08 B29C44/34 B29C44/44 B29C44/56 C08J C08J9/00 C08J9/12 C08J9/18 C08J9/22 C08J9/228 C08J9/232 C08L C08L25/04 (Advanced/Invention); B29C44/00 B29C44/34 C08J9/22 (Advanced/Non-invention); C08J (Subclass/Invention)

International (IPC 1-7): C08J3/00 C08J9/00

CPC: B29C44/3453 B29C44/3461 B29C44/445 C08J9/228 C08J9/232 C08J9/22

European: B29C44/34F2C B29C44/34H B29C44/44B C08J9/22 C08J9/228 C08J9/232

US: 521/146 521/50 521/50P 521/56 521/58 521/60



Family:

Publication number	Publication date	Application number	Application date
AU2004267408 AA	20050303	AU20040267408	20040810
AU2004267408 BB	20090108	AU20040267408	20040810
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CA2534846 AA	20060206	CA20042534846	20040810
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EP1654304 A2	20060510	EP20040780581	20040810
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HK1110614 A1	20080718	HK20080101192	20080131
HK1110614 A3	20080718	HK20080101192	20080131
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US2005059747 AA	20050317	US20040915141	20040810
US7358280 BB	20080415	US20040915141	20040810
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WO05019310 A3	20070201	WO2004US25772	20040810

Priority:

US20030495458P 20030815 US20040915141 20040810 WO2004US25772 20040810

Probable Assignee: NOVA CHEMICALS (INTERNATIONAL) SA

Assignee(s): (std): BERGHMANS MICHEL FLORENTINE JO ; BERGHMANS MICHEL FLORENTINE JO ; BLEIJENBERG KAREL CORNELIS ; METSAARS ALPHONSUS CATHARINA G ; NOVA CHEM INT SA ; TEUBERT JOACHIM ; NOVA CHEMICALS INT S A ; NOVA CHEMICALS INT SA ; NOVA CHEMICALS INTERNAT S A

Assignee(s): NOVA CHEMICALS INTERNATIONAL S A ; NOVA CHEMICALS INTERNATIONAL SA ; NOVA CHEMICALS (INTERNATIONAL) SA ; NOVA CHEMICALS S A ; NOVA CHEMICALS SA ; METSAARS ALPHONSUS CATHARINA GERARDUS ; BERGHMANS MICHEL FLORENTINE JOZEF ; BERGHMANS MICHEL FLORENTINE JOZEF

Inventor(s): (std): BERGHMANS MICHEL FLORENTINE JO ; BLEIJENBERG KAREL CORNELIS ; CATHAR BERGHMANS MICHEL FLOREN ; METSAARS ALPHONSUS CATHARINA G ; TEUBERT JOACHIM ; MICHEL FLORENTINE JOZEF BERGHMANS ; MICHEL FLORENTINE JOZEF BERGHMANS ; METSAARS ALPHONSUS CATHARINA GERARDUS ; KAREL CORNELIS BLEIJENBERG ; JOACHIM TEUBERT ; BERGHMANS MICHEL FLORENTINE JOZEF ; BERGHMANS MICHEL FLORENTINE JOZEF ; ALPHONSUS CATHARINA GERARDUS METSAARS ; BERGHMANS MICHEL FLORENTINE JO

Inventor(s): BERGHMANS MICHEL FLORENTINE ; KAREL BLEIJENBERG ; METSAARS ALPHONSUS CATHARINA ; BERGHMANS MICHEL FLORENTINE JO BLEIJENBERG ; BLEIJENBERG KAREL

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; TROTT TREVOR; CLT PATENT AND
TRADEMARK HK LTD; KANAYAMA MASATAKA; TSUBOKURA MICHIAKI; OSAKI KATSUMASA; KAWAGUCHI
YOSHIO; ONO MAKOTO; SUZANNE KIKEL NOVA CHEMICALS INC; KIKEL SUZANNE; MATZ GARY F;
SUZANNE; GARY F

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

Title: SLURRY FEED APPARATUS FOR FIBER-REINFORCED STRUCTURAL CEMENTITIOUS PANEL PRODUCTION

Abstract: A feed apparatus for use in depositing a slurry upon a moving web having a direction of travel includes a main metering roll, a companion roll disposed in closely spaced relation to the metering roll to form a nip therebetween. The nip is constructed and arranged to retain a supply of the slurry, and the rolls are driven so that slurry retained in the nip progresses over an upper outer peripheral surface of the metering roll to be deposited upon the web. Also preferably included is a thickness control roll disposed in operational relationship to the metering roll for controlling thickness of a layer of slurry drawn from the nip over the outer metering roll surface. Preferably, the metering roll, the companion roll and the thickness control roll are driven in the same direction.

Classifications:

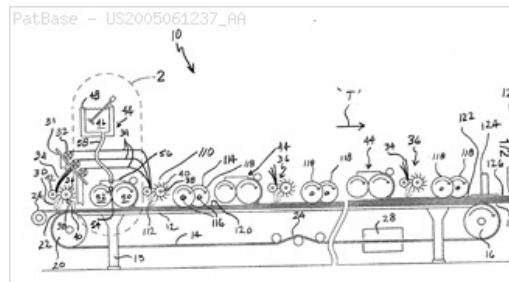
International (IPC 8-9): B05C B05C1/08 B28B B28B1/52 B28B13/02 B28B5/02 (Advanced/Invention); B05C1/08 (Advanced/Non-invention); B05C1/08 B28B1/52 B28B13/00 B28B5/00 (Core/Invention); B05C1/08 (Core/Non-invention); B28B (Subclass/Invention)

International (IPC 1-7): B05C1/06 B05C1/08 B28B 1/52 B28B1/00 B28B1/52 B28B13/02 B28B5/02 B32B13/00

CPC: B05C1/0834 B05C1/0865 B28B1/522 B28B5/027 B28B13/02

European: B05C1/08Y2 B28B1/52C B28B13/02 B28B5/02C2 L05C1/08P2 L05C1/08Y50B

US: 118/259 118/259S 118/262 118/304 156/346 156/346S

**Family:**

Publication number	Publication date	Application number	Application date
AR049763 AA	20060906	AR2004P103340	20040917
AT548171 E	20120315	AT20040782995T	20040902
BRPI0414529 A	20061107	BR2004P114529	20040902
CA2535000 AA	20060207	CA20042535000	20040902
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CL43240 B	20071107	CL20040002350	20040915
CN100563965 C	20091202	CN200480026963	20040902
CN1852794 A	20061025	CN200480026963	20040902
DE602004036835 D1	20120503	DE200460036835T	20040902
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EP1663597 B1	20120307	EP20040782995	20040902
EP2295217 A1	20110316	EP20100015328	20040902
HK1085968 A1	20060908	HK20060107457	20060703
HK1085968 A3	20060908	HK20060107457	20060703
IL173641 A0	20060705	IL20060173641	20060209
IL173641 A1	20110428	IL20040173641	20040902
JP2007505769 T2	20070315	JP20060526922T	20040902
MXPA06002471 A1	20060620	MX2006PA02471	20040902
RU2006112827 A	20071027	RU20060112827	20040902
RU2351466 C2	20090410	RU20060112827	20040902
TH71699 A	20051103	TH20041003590	20040916
US2005061237 AA	20050324	US20030664460	20030918
US6986812 BB	20060117	US20030664460	20030918
WO05032783 A1	20050414	WO2004US28609	20040902

Priority:

US20030664460 20030918 EP20040782995 20040902 WO2004US28609 20040902

Probable Assignee: UNITED STATES GYPSUM CO

Assignee(s): (std): DUBEY ASHISH ; JUNAJTED STEJTS DZHIPSUM KOMPA ; UNITED STATES GYPSUM CO ; PORTER MICHAEL J ; UNITED STATES GYPSUM COMPANY

Assignee(s): CHAMBERS JOE W ; MILLER DAVID PAUL ; JUNAJTED STEJTS DZHIPSUM KOMPANI ; LI ALFRED C ; GYPSUM CO ; GYPSUM CO UNITED STATES

Inventor(s): (std): LI AL FRED SI ; CHEMBERS DZHO VI ; DUBEJ ASHISH ; PORTER MAJKL DZH ; PORTER MICHAEL J ; PORTER MICHAEL ; MILLER PAUL D ; DUBEY ASHISH PORTER MICHAEL J ; DUBEY ASHISH ; MILLER PAUL ; LI ALFRED C ; CHAMBERS JOE W ; ASHISH DUBEY

Inventor(s): MICHAEL J PORTER ; MILLER DAVID PAUL ; PORTER MICHAEL J HANOVER PARK ; DUBEY ASHISH GRAYSLAKE ; LI ALFRED C NAPERVILLE ; LI AL'FRED SI ; MILLER PAUL' ; MILLER PAUL LINDENHURST

Agent(s): MACRAE AND CO; JOHANSSON; FINDLAY ALICE ROSEMARY; CARPMAEL ROBERT MAURICE CHARLES; MARKS AND CLERK; REINHOLD COHN AND PARTNERS; GREER BURNS AND CRAIN; GREER BURNS AND CRAIN LTD; DAVID; MICHAEL

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 TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: MULTI-LAYER PROCESS AND APPARATUS FOR PRODUCING HIGH STRENGTH FIBER-REINFORCED STRUCTURAL CEMENTITIOUS PANELS

Abstract: A multi-layer process for producing structural cementitious panels, includes, (a.) providing a moving web; (b.) one of depositing a first layer of loose fibers upon the web and (c.) depositing a layer of settable slurry upon the web; (d.) depositing a second layer of loose fibers upon the slurry; (e.) embedding said second layer of fibers into the slurry; and (f.) repeating steps (c.) through (e.) until the desired number of layers of settable fiber-enhanced slurry in the panel is obtained. Also provided are a structural panel produced by the present process, an apparatus suitable for producing structural cementitious panels according to the present process, and a structural cementitious panel having multiple layers, each layer created by depositing a layer of settable slurry upon a moving web, depositing fibers upon the slurry and embedding the fibers into the slurry such that each layer is integrally formed with the adjacent layers.

Classifications:

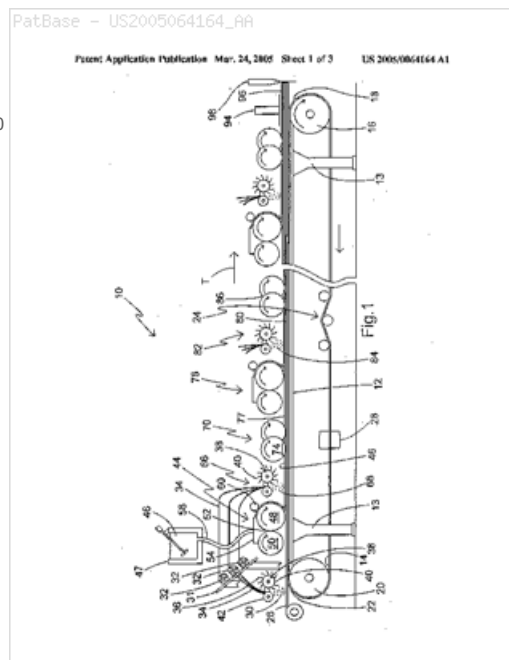
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International (IPC 1-7): B05D1/12 B28B 1/52 B28B 5/02 B28B1/52 B28B5/02 B32B13/02 E04C2/04

CPC: B28B1/52 B28B5/02 B28B19/0 B28B1/30 Y10T428/24942 E04C2/06 B28B1/522 B28B1/526 B28B5/027 B28B19/0092 Y10T428/24924

European: B28B1/52C B28B1/52F B28B19/00K B28B5/02C2 E04C2/06

US: 118/223 156/42 264/128 264/172.19 264/308 264/333 425/115 425/130 425/209 425/308 425/371 425/447 427/180 428/212 428/220 428/292.1



Family:

Publication number	Publication date	Application number	Application date
AR050220 AA	20061011	AR2004P103339	20040917
AR063771 AA	20090218	AR2007P104859	20071031
AU2007318006 AA	20080515	AU20070318006	20071101
AU2007318006 BB	20120301	AU20070318006	20071101
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US7789645 BB	20100907	US20080133657	20080605
WO05032782 A1	20050414	WO2004US28401	20040901
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WO08057376 A3	20081106	WO2007US23058	20071101

Priority:

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Probable Assignee: UNITED STATES GYPSUM CO

Assignee(s): (std): CHAMBERS JOE W ; DUBEY ASHISH ; GREENGARD AARON ; JUNAJTED STEHJTS DZHIPSAM KOMPANI ; JUNAJTED STEJTS DZHIPSUM KOMPA ; US GYPSUM CORP ; LI ALFRED C ; MILLER D PAUL ; PORTER MICHAEL J ; USG CORP ; UNITED STATES GYPSUM CO

Assignee(s): UNITED STATES GYPSUM CO CHICAGO ; UNITED STATES GYPSUM CORP ; MILLER D ; UNITED STATES GYPSUM CO700 NORTH HIGHWAY 45LIBERTYVILLEIL60048-1296US ; JUNAJTED STEJTS DZHIPSUM KOMPANI

Inventor(s): (std): CHEMBERS DZHO V ; DABI ASHISH ; DUBEJ ASHISH ; LI AL FRED S ; GRINGARD AARON ; MILLER D POL ; MILLER PAUL D ; MILLER D PAUL ; LI ALFRED C ; GREENGARD AARON ; DUBEY ASHISH ; CHAMBERS JOE W ; PORTER MAJKL DZH ; PORTER MICHAEL J ; DUBEY ASHISH CHAMBERS JOE W GR ; D PAUL MILLER ; ASHISH DUBEY ; AARON GREENGARD

Inventor(s): ALFRED C LI ; PORTER MICHAEL J HANOVER PARK ; PORTER MICHAEL JUS ; PORTER MICHAEL ; LI AL'FRED S. ; DUBEY ASHISH CHAMBERS JOE W ; MILLER D ; MICHAEL J PORTER ; JOE W CHAMBERS ; DUBEY ASHISH CHAMBERS JOE W GREENGARD AARON LI ALF ; PAUL D MILLER ; LI ALFRED ; LI ALFRED C NAPERVILLE ; LI ALFRED CUS ; MILLER D PAUL LINDENHURST ; MILLER D PAULUS ; DUBEY ASHISH GRAYSLAKE ; DUBEY ASHISHUS ; GREENGARD AARON MCHENRY ; GREENGARD AARONUS ; ASHISH DUBEY MICHAEL J PORTER JOE W CHAMBERS AARON GREENGARD ALFRED C LI PAUL D MILLER ; CHAMBERS JOE ; CHAMBERS JOE W LAKE GENEVA ; CHAMBERS JOE WUS

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; JAMES AND WELLS INTELLECTUAL PROPERTY; MACRAE AND CO; GOWLING LAFLEUR HENDERSON LLP; MOFFAT AND CO; JOHANSSON; MARKS AND CLERK LUXEMBOURG LLP; FINDLAY ALICE ROSEMARY; SCHUETTE HARTMUT; BSB INTELLECTUAL PROPERTY LAW; RIZZO SERGIO; MARKS AND CLERK; REINHOLD COHN AND PARTNERS; TOLGA CAYLAK; GREER BURNS AND CRAIN; GREER BURNS AND CRAIN LTD; JANCI ESQ DAVID F; SAHU ESQ PRADIP; PRADIP; DAVID F; CRAIN LAWRENCE J

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: BUILDING PANELS WITH AESTHETIC EDGES

Abstract: A building composite panel including at least one longitudinal edge is made of a core of hydraulic cement and a multi-ply edge facing material covering and attached to at least one of the longitudinal edges. The facing material includes at least a first ply configured for attachment to the core as it sets and at least a second, water-impermeable ply.

Classifications:

International (IPC 8-9): B32B B32B1/04 B32B13/02 B32B13/04 B32B23/02 B32B3/02 B32B3/08 B32B5/16 B32B7/02 D03D D03D15/00 D03D25/00 E04C2/04 E04C2/26 E04C2/38 (Advanced/Invention); B32B5/26 (Advanced/Non-invention); B32B1/00 B32B13/00 B32B23/00 B32B23/02 B32B3/00 B32B3/02 B32B3/08 B32B5/16 B32B7/02 D03D15/00 D03D25/00 E04C2/04 E04C2/26 E04C2/38 (Core/Invention); B32B5/22 (Core/Non-invention)

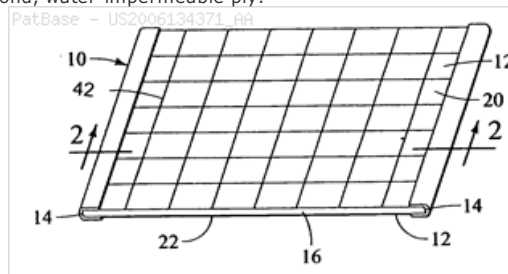
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CPC: Y10T428/22 Y10T428/23 Y10T428/24777 Y10T428/24802 E04C2/043 B2B5/027 B2B23/0006 B32B3/04 B32B3/08 B32B3/085 B32B5/024 B32B5/06 B32B5/08 B32B5/10 B32B5/26 B32B7/02

B32B13/04 B32B13/14 B32B27/12 B32B27/20 B32B27/32 B32B27/34 B32B27/36 B32B2250/40 B32B2250/44 B32B2262/0253 B32B2262/0261 B32B2262/0276 B32B2307/4026 B32B2307/54 B32B2307/7265 B32B2419/00 B32B2607/00 Y10T442/16 Y10T442/20 Y10T442/2164 Y10T442/2484 Y10T442/2574 Y10T428/249968

European: B32B13/04 B32B13/14 B32B27/12 B32B27/20 B32B27/32 B32B27/34 B32B27/36 B32B3/04 B32B3/08 B32B3/08B B32B5/02B B32B5/06 B32B5/08 B32B5/10 B32B5/26 B32B7/02 E04C2/04C L28B23/00A L28B5/02C2 L32B250/40 L32B250/44 L32B262/02H L32B262/02J L32B262/02L L32B307/402D L32B307/540 L32B307/726B L32B419/00 L32B607/00

US: 428/192 428/192S 428/195.1 428/251 428/312.4 428/67 428/68 428/68P 442/118 442/129 442/36 442/59 442/79 52/601 52/612 52/811

**Family:**

Publication number	Publication date	Application number	Application date
AR052338 AA	20070314	AR2005P105223	20051213
AU2005317089 AA	20060622	AU20050317089	20051025
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Priority:

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Probable Assignee: UNITED STATES GYPSUM CO

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

Assignee(s): DUBEY ASHISH

Inventor(s): (std): DUBEY ASHISH

Inventor(s): ASHISH DUBEY

Agent(s): GRIFFITH HACK; MACRAE AND CO; MARKS AND CLERK; GREER BURNS AND CRAIN LTD; DAVID F; 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 KM KP KR KZ LC 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

Title: COMPOSITE PRE-FORMED BUILDING PANELS

Abstract: A composite building panel including a central body, substantially parallelepipedic in shape, comprised of an expanded polymer matrix, having opposite faces, a first surface and an opposing second surface; and one or more reinforcing members longitudinally extending across the central body between said opposite faces, having a first side portion embedded in the expanded polymer matrix, and a second side portion extending away from the first surface of the central body and one or more expansion holes located in the reinforcing member between the first side portion of the reinforcing member and the first surface of the central body. The central body includes a polymer matrix that expands through the expansion holes; and a space defined by the first surface of the central body and the second side portion of the reinforcing members is adapted for accommodating utilities through the space.

Classifications:

International (IPC 8-9): C04B20/00 C04B28/02 B28B13/00 B28B23/04 B28B3/00 B28C5/08 B32B B32B15/01 B32B15/20 B32B3/00 B32B3/12 B32B3/26 B32B5/14 B32B5/16 B32B7/12 C04B C04B11/00 C04B12/00 C04B14/00 C04B14/02 C04B14/08 C04B14/12 C04B14/18 C04B14/22 C04B14/38 C04B14/42 C04B14/48 C04B16/00 C04B16/06 C04B16/08 C04B18/04 C04B18/06 C04B18/08 C04B18/14 C04B22/04 C04B24/00 C04B24/12 C04B24/16 C04B24/24 C04B24/26 C04B24/28 C04B24/36 C04B28/00 C04B28/04 C04B28/06 C04B28/08 C04B38/00 C04B38/08 C04B40/00 C04B7/00 C04B9/00 C08B24/26 C08J9/00 C08J9/16 C08J9/22 C08K3/00 E01C3/00 E04B E04B1/00 E04B1/18 E04B2/86 E04B5/19 E04B5/48 E04C E04C1/00 E04C2/04 E04C2/22 E04C2/26 E04C2/288 E04C2/34 E04C2/38 E04C2/52 E04C5/08 E04F13/074 E04F13/18 E04F15/02 E04G11/36 E04G21/14 (Advanced/Invention);

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International (IPC 1-7): C04B16/08 C04B20/00 C04B28/02 C04B38/00 C04B38/08 C08J E04B5/19 E04C1/00

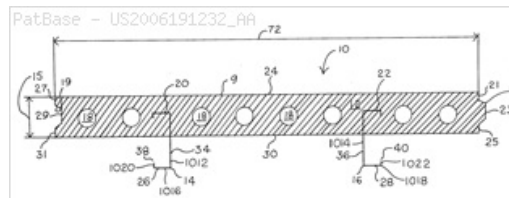
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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: SYNTHEON INC

Assignee(s): (std): DIETRICH IND INC ; GUEVARA TRICIA ; MADISH JOHN K ; METROMONT CORP ; HILEMAN BLAIN ; HILEMAN TOBIAS B ; MATZ GARY F ; KELLEY MICHAEL R ; HUGHES RICK ; LADELY TRICIA G ; SALAZAR LORENZO L ; RALPH GREGORY S ; NOVA CHEMCIALS INC ; WILLIAMS MICHAEL T ; MOORE ROGER ; MOORE MARY MARGARET ; MOORE MARY M ; VAN BUSKIRK KRISTEN ; NOVA CHEM INC ; ADEWALE KOLAPO ; BOWMAN JAY ; BOWMAN JAY J ; BUSKIRK KRISTEN V ; COWAN DAVID A ; VANBUSKIRK KRISTEN ; SWEAT ALAN ; SYNTHEON INC ; TANG JIANGSHENG ; WOOLFSMITH DANIEL ; MOORE LEGAL REPRESENTATIVE MARY MARGARET ; LADELY TRICIA GUEVARA ; LADELY GUEVARA TRICIA

Assignee(s): DIETRICH IND INC PITTSBURGH ; SYNTHEON INC N D GES D STAATES DELAWARE MOON TOWNSHIP ; SYNTHEON INC LEETSDALE ; PENNELL RICHARD H JR ; MOORE ROGER DECEASED ; MORRE ROGER ; WELLS FARGO BANK NA ; DIETRICH IND ; NOVA CHEMICALS INC ; HILEMAN TOBIAS BLAIN ; GUEVARA TRICA

Inventor(s): (std): ADELWALE KOLAPO ; ADEWALE KOLAPO ; BLAIN HILEMAN TOBIAS ; BOWMAN JAY ; BOWMAN JAY J ; COWAN DAVID ; COWAN DAVID A ; GUEVARA TRICIA ; HILEMAN TOBIAS BLAIN ; JAY BOWMAN ; HILEMAN BLAIN ; KOLAPO ADEWALE ; LADELY GUEVARA TRICIA ; LADELY TRICIA GUEVARA ; MADISH JOHN K ; MATZ GARY F ; MOORE MARY M ; MOORE MARY MARGARET ; MOORE ROGER ; MOORE LEGAL REPRESENTATIVE MAR ; PENNELL JR RICHARD H ; PENNELL RICHARD H JR ; RALPH GREGORY S ; ROGER MOORE ; ROGER MORRE ; SALAZAR LORENZO L ; TRICA GUEVARA ; VAN BUSKIRK KRISTEN ; VANBUSKIRK KRISTEN ; WILLIAMS MICHAEL T ; SWEAT ALAN ; WOOLFSMITH DANIEL ; LADELY TRICIA G ; TANG JIANGSHENG ; TANG JIAN SHENG ; PENNELL RICHARD H ; MORRE ROGER ; MADISH JOHN ; LADELY TRICIA G HILEMAN BLAIN ; KELLEY MICHAEL ; COWAN DAVID ALLEN ; BUSKIRK KRISTEN VAN ; TRICA GUEVARA ; RICK HUGHES ; MOORE LEGAL REPRESENTATIVE MARY MARGARET ; KRISTEN BUSKIRK VAN ; KELLEY MICHAEL R ; HUGHES RICK ; BUSKIRK KRISTEN V ; HILEMAN TOBIAS B ; GUEVARA TRICA

Inventor(s): DANIEL WOOLFSMITH ; JIANGSHENG TANG ; LADELY (GUEVARA) TRICIA ; KRISTEN VANBUSKIRK ; KRISTEN VAN BUSKIRK ; LADELY TRICIA G HILEMAN BLAIN VAN BUSKIRK... ; MICHAEL R KELLEY ; SALAZAR LORENZO ; RICHARD H PENNELL ; RICHARD H ; RALPH GREGORY ; TANG JIAN SHENG AND ; GARY F MATZ ; TRICA G LADELY ; MOORE LEGAL REPRESENTATIVE MARY M ; WILLIAMS MICHAEL T BEAVER FALLS ; WOOLFSMITH ; WILLIAMS MICHAEL ; VAN BUSKIRK KRISTEN ALIQUIPPA ; TRICA G ; TRICA GUEVARA LADELY ; VAN BUSKIRK ; SALAZAR LORENZO L GIBSONIA ; TANG ; TOBIAS BLAIN HILEMAN ; RALPH GREGORY S WEXFORD ; RICK ; PENNELL RICHARD HJR ; PENNELL RICHARD ; MOORE MARY ; MOORE ROGER COLUMBIA ; MOORE ROGER DECEASED ; MICHAEL T WILLIAMS ; MADISH JOHN K NEGLEY ; MATZ GARY ; LORENZO L SALAZAR ; MADISH JOHN AND ; LADELY TRICIA G HILEMAN BLAIN VAN BUSKIRK KRISTEN HUGHES RICK TANG JIANGSHENG WOOLFSMITH DANIEL ; KRISTEN ; LADELY ; HILEMAN TOBIAS ; JAY J BOWMAN ; JIANGSHENG ; JOHN K MADISH ; JOHN MADISH ; KELLEY MICHAEL R BUTLER ; HILEMAN TOBIAS BLAIN NEW CASTLE ; HUGHES ; HUGHES RICK BEAVER ; GUEVARA TRICIA KOPPEL ; GUEVARA TRICIA WILLIAMS MICHAEL T HUGHES RICK KELLEY MICHAEL R MADISH JOHN K VAN BUSKIRK KRISTEN ; HILEMAN ; COWAN DAVID A CRANBERRY TOWNSHIP ; DANIEL ; DAVID A COWAN ; GREGORY S RALPH ; GUEVARA TRICA KOPPEL ; BOWMAN JAY J FLORENCE ; BUSKIRK KRISTEN ; ADEWALE KOLAPO MOON TOWNSHIP ; BLAIN ; BLAIN HILEMAN

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; GRIFFITH HACK; TROTT TREVOR; NORTON ROSE CANADA SENCRL SRL LLP; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; OGILVY RENAULT LLP SENCRL SRL; CHISHOLM P SCOTT; CLARKE; GRUENECKER PATENT U RECHTSANWAELTE PARTG MBB; GRUENECKER PATENT U RECHTSANWAELTE PARTG MBB; HOFFMANN EITLE; WATSON ROBERT JAMES; WATSON ROBERT JAMES ET AL; GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAEUSSER; MILTENYI PETER; WENPING AND CO; LIU SHEN AND ASSOCIATES; CHINA PATENT AGENT HK LTD; BENNY KONG AND YEUNG; OSAKI KATSUMASA; TSUBOKURA MICHIAKI; KANAYAMA MASATAKA; KAWAGUCHI YOSHIO; ONO MAKOTO; WEBB LAW FIRM PC; GARY F MATZ NOVA CHEMICALS INC; NOVA CHEMICALS INC; NOVA CHEMICALS INC KAREN S LOCKHART; GARY F; WEBB LAW FIRM; MATZ GARY F

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

Title: WATER RESISTANT LOW DENSITY CEMENTITIOUS PANEL

Abstract: A cementitious panel with a low density core that can include at least one lightweight particulate aggregate filler, at least one binder, and at least one air entraining agent. The core of the cementitious panel can further comprise a rheological admixture, a standard weight aggregate filler, and/or synthetic and/or natural fibers. The method of forming such a cementitious panel involves forming a cementitious slurry, covering a reinforcing mesh with a portion of the cementitious slurry, forming a core by mixing together at least one lightweight particulate aggregate filler, and at least one air entraining agent, and introducing the core on top of the slurry covered mesh.

Classifications:

International (IPC 8-9): B28B3/00 C04B40/00 (Advanced/Invention);

B28B3/00 C04B40/00 (Core/Invention)

CPC: B28B19/0015 B28B1/16 B28B3/12 B28B23/0006 B28B23/0087 C04B28/02 C04B38/08 C04B2111/00612 C04B2111/10 Y02W30/92 Y02W30/94 Y10T428/249968

European: B28B1/16 B28B19/00B B28B23/00A B28B23/00Z1 B28B3/12 C04B28/02 C04B38/08 M04B111/00T6 M04B111/10

US: 264/333 264/333S 428/312.4 428/312.400P

Family:

Publication number	Publication date	Application number	Application date
US2006292358 AA	20061228	US20060421674	20060601
WO06130756 A2	20061207	WO2006US21259	20060601
WO06130756 A3	20071122	WO2006US21259	20060601

Priority:

US20050686498P 20050601 US20060421674 20060601

Probable Assignee: NATIONAL GYPSUM PROPERTIES LLC

Assignee(s): (std): HICKEY JAMES ; MATHIEU MARIE ANDREE ; NAT GYPSUM PROPERTIES LLC ; ROBERTSON CRAIG C

Assignee(s): BANK OF AMERICA NA ; NATIONAL GYPSUM PROPERTIES LLC

Inventor(s): (std): HICKEY JAMES ; MATHIEU MARIE ANDREE ; ROBERTSON CRAIG C

Inventor(s): ROBERTSON CRAIG

Agent(s): ICE MILLER LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC 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

Title: THERMALLY EXPANDED MICROSPHERES AND A PROCESS FOR PRODUCING THE SAME

Abstract: The present invention provides heat-expanded microspheres having high packing efficiency, and a production method thereof. The heat-expanded microspheres are produced by expanding heat-expandable microspheres, which comprise shell of thermoplastic resin and a blowing agent encapsulated therein having a boiling point not higher than the softening point of the thermoplastic resin and have an average particle size from 1 to 100 micrometer, at a temperature not lower than their expansion initiating temperature, and the heat-expanded microspheres result in a void fraction not higher than 0.70.

Classifications:

International (IPC 8-9): B01J13/20 B29C44/34 B32B1/00 B32B5/16 C08J3/12 C08J9/00 C08J9/06 C08J9/12 C08J9/14 C08J9/16 C08J9/22 C08J9/32 (Advanced/Invention);

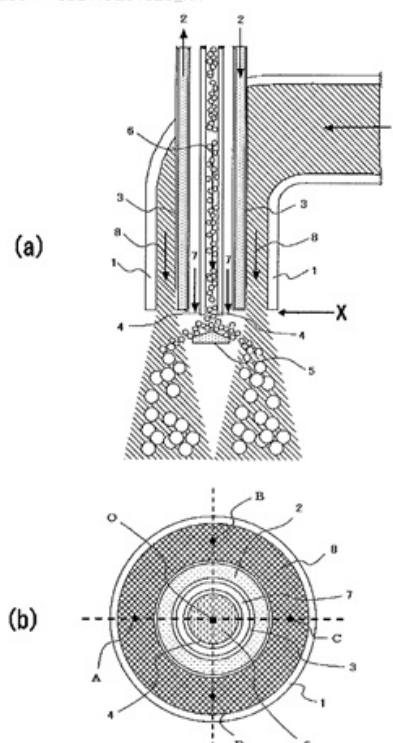
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B01J13/20 B29C44/34 B32B1/00 C08J3/12 C08J9/00 (Core/Invention);
B01J13/20 (Core/Non-invention)

CPC: Y10T428/2982 Y10T428/2984 Y10T428/2985 Y10T428/2991 Y10T428/2998 B29C44/3461 C08J9/143 C08J9/32 C08J2333/18 B01J13/20

European: B01J13/20 B29C44/34H C08J9/14H C08J9/32 M08J333/18

US: 428/402 428/402.2 428/402.21 428/402.210P 428/403 428/407 428/407P 521/50 521/56 521/57 521/57S

PatBase - US2009280328_AA



Family:

Publication number	Publication date	Application number	Application date
■ CN101263183 A	20080910	CN200680033441	20060914
■ CN101263183 B	20110907	CN200680033441	20060914
■ EP1953184 A1	20080806	EP20060797973	20060914
■ EP1953184 A4	20100721	EP20060797973	20060914
■ EP1953184 B1	20180801	EP20060797973	20060914
■ JP2007032436 A1	20090319	JP20070535537T	20060914
■ JP2013018990 A2	20130131	JP20120210954	20120925
■ JP5134960 B1	20130130	JP20070535537T	20060914
■ JP5134960 B2	20130130	JP20070535537T	20060914
■ JP5331237 B2	20131030	JP20120210954	20120925
■ KR101322260 B1	20131025	KR20087008909	20060914
■ KR20080059205 A	20080626	KR20087008909	20060914
■ US2009280328 AA	20091112	US20060066057	20060914
■ US2012121907 AA	20120517	US20120355647	20120123
■ US8129020 BB	20120306	US20060066057	20060914
■ US8486531 BB	20130716	US20120355647	20120123
■ WO07032436 A1	20070322	WO2006JP318261	20060914

Priority:

JP20050303626	20050916	JP20070535537	20060914	WO2006JP18261	20060914
WO2006JP318261	20060914	US20060066057	20060914	US20080066057	20080306
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Probable Assignee: MATSUMOTO YUSHI SEIYAKU CO LTD

Assignee(s): (std): AOKI TAKAYUKI ; INOHARA TAKESHI ; KITANO KENICHI ; MASUDA TOSHIKI ; MATSUMOTO YUSHI SEIYAKU KK ; MIKI KATSUSHI ; TAKAHARA ICHIRO

Assignee(s): MATSUMOTO YUSHI SEIYAKU CO ; MATSUMOTO YUSHI SEIYAKU CO LTD

Inventor(s): (std): AOKI TAKAYUKI ; ICHIRO TAKAHARA ; INOHARA TAKESHI ; KATSUSHI MIKI ; KENICHI KITANO ; KITANO KENICHI ; MASUDA TOSHIKI ; MIKI KATSUSHI ; TAKAHARA ICHIRO ; TAKAYUKI AOKI ; TAKESHI INOHARA ; TOSHIKI MASUDA

Agent(s): BENEDUM ULRICH MAX; MARGUE ROBERT GERMAIN; SHINJYU GLOBAL IP; GLOBAL IP COUNSELORS LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK
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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: CLAY BUILDING BOARD AND PROCESS FOR PRODUCING IT

Abstract: PCT No. PCT/DE91/00441 Sec. 371 Date Nov. 25, 1992 Sec. 102(e) Date Nov. 25, 1992 PCT Filed May 27, 1991 PCT Pub. No. WO91/19058 PCT Pub. Date Dec. 12, 1991. The clay tile proposed consists of a clay-bound core layer (20) with, on each side of it, a surface layer (22,24) of netlike tear-resistant textile material which is at least partially embedded in the clay of the core layer (20).

Classifications:

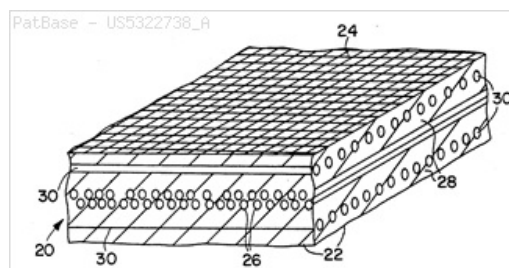
International (IPC 8-9): B28B1/52 B28B19/00 B28B23/00 B28B23/02 B28B5/02 C04B28/00 E04C2/04 E04C2/06 (Advanced/Invention); B28B1/52 B28B19/00 B28B23/00 B28B23/02 B28B5/00 C04B28/00 E04C2/04 E04C2/06 (Core/Invention)

International (IPC 1-7): B28B13/02 B28B19/00 B28B23/00 B28B5/02 B32B13/02 E04C2/04 E04C2/06 E04C5/07

CPC: C04B2111/00612 C04B28/001 B28B1/522 B28B1/525 B28B5/027 B28B23/0006 B28B23/02 E04C2/04 E04C2/06 Y10T428/31971 Y02W30/97

European: B28B1/52C B28B1/52E B28B23/00A B28B23/02 B28B5/02C2 C04B28/00B E04C2/04 E04C2/06

US: 156/142 264/333 428/532 428/703



Family:

Publication number	Publication date	Application number	Application date
AT102279 E	19940315	AT19910909652T	19910527
AU199178775 A1	19911231	AU19910078775	19910527
DE4017057 A1	19911128	DE19904017057	19900526
DE4017057 C2	19991104	DE19904017057	19900526
DE59101115 D1	19940407	DE19915001115	19910527
EP0535000 A1	19930407	EP19910909652	19910527
EP0535000 B1	19940302	EP19910909652	19910527
US5322738 A	19940621	US19920952710	19921125
WO9119058 A1	19911212	WO1991DE00441	19910527

Priority:

DE19904017057 19900526 DE19915001115 19910527 WO1991DE00441 19910527
EP19910909652 19910527 WO1991DE000441 19910527

Probable Assignee: BREIDENBACH PETER 4060 VIERSEN DE

Assignee(s): (std): BREIDENBACH PETER ; PETER BREIDENBACH

Assignee(s): BREIDENBACH PETER 4060 VIERSEN DE

Inventor(s): (std): BREIDENBACH PETER

Inventor(s): BREIDENBACH PETER 4060 VIERSEN DE ; PETER BREIDENBACH

Designated states: AT AU BE BR CA CH DE DK ES FR GB GR IT JP LI LU NL SE SU US

Title: METHOD FOR PRODUCTION OF REINFORCED CEMENTITIOUS PANELS

Abstract: A method and apparatus for producing light-weight construction panels having a cementitious core layer surfaced with a layer of reinforcing fabric bonded to the two faces of the core includes the use of slurry applicator having a supporting member and a doctor in addition to a moving carrier for the slurry coated fabric. The edges of the panel also are covered with the fabric and may be open mesh edges. Cementitious slurry, for example, portland cement slurry, is applied to the fabric by means of a supporting member over which the fabric is drawn and a doctor means adjustably mounted above the supporting member. The supporting member is of a non-base-reactive material such as polypropylene or stainless steel; the use of such a supporting member permits better application of the slurry to the fabric before placement of the slurry coated fabric on the moving carrier.

Classifications:

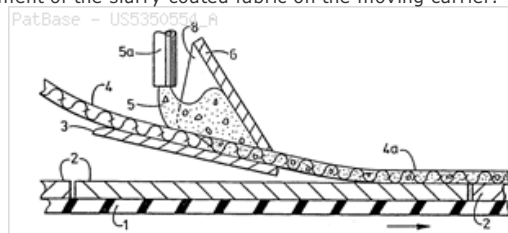
International (IPC 8-9): B28B1/52 B28B19/00 B28B23/00 B28B5/02 B32B38/08 (Advanced/Invention); B28B1/52 (Advanced/Non-invention); B28B1/52 B28B19/00 B28B23/00 B28B5/00 B32B38/08 (Core/Invention)

International (IPC 1-7): B05C11/02 B27N3/06 B28B1/16 B28B1/40 B28B1/52 B28B19/00 B28B5/00 B28B7/36 B28B7/38 B29C47/06 B32B31/12 B32B31/30 E04C2/00

CPC: Y10S264/57 Y10S264/64 B32B38/08 B28B5/027 B28B19/0015 B28B19/0092 B28B23/0006 Y10T156/1712 Y10T156/1727

European: B28B19/00B B28B19/00K B28B23/00A B28B5/02C2 B32B31/00D6 B32B38/08

US: 156/42 156/543 156/549 264/149 264/151 264/160 264/163 264/171 264/171.11 264/171.25 264/177.11 264/211.11 264/212 264/213 264/256 264/258 264/308 264/310 264/337 264/338 264/DIG.57 264/DIG.64 425/101 425/102 425/115 425/223 425/224 425/364R

**Family:**

Publication number	Publication date	Application number	Application date
AU199212557 A1	19920907	AU19920012557	19911216
CA2060060 AA	19920802	CA19922060060	19920127
JP6198618 A2	19940719	JP19920040443	19920131
KR19920016203 A	19920924	KR19920000916	19920123
MX9200213 A1	19920801	MX19920000213	19920117
US5350554 A	19940927	US19930093319	19930716
WO9213645 A1	19920820	WO1991US09452	19911216

Priority:

US19910649468 19910201 US19910728984 19910712 US19910807256 19911213
 WO1991US09452 19911216 CA19922060060 19920127 US19930093319 19930716

Probable Assignee: CUSTOM BUILDING PRODUCTS INC

Assignee(s): (std): GLASCRETE INC ; GURASUKURIITO INC

Assignee(s): MILLER ROBERT G ; WELLS FARGO BANK NATIONAL ASSOCIATION ; CUSTOM BUILDING PRODUCTS INC F K A CUSTOM BUILDING ; CUSTOM BUILDING PRODUCTS INC F K A CUSTOM BUILDING PRODUCTS ; CUSTOM BUILDING PRODUCTS INC (F K A CUSTOM BUILDING PRODUCTS) ; GLASERETE INC ; CUSTOM BUILDING PRODUCTS ; CUSTOM BUILDING PRODUCTS INC ; BANK OF AMERICA NA ; BANK OF AMERICA NA ADMINISTRATIVE AGENT AS ; BANK OF AMERICA NA AS COLLATERAL AGENT ; BANK OF AMERICA NA COLLATERAL AGENT AS

Inventor(s): (std): ROBAATO JII MIRAA ; MILLER ROBERT G

Inventor(s): ROBERT G MILLER

Agent(s): GOWLING LAFLEUR HENDERSON LLP

Designated states: AT AU BE BR CH DE DK ES FR GB GR IT LU MC NL NO SE SU

Title: CONCRETE WALL FABRICATION SYSTEM

Abstract: A concrete wall fabrication system includes an endless track, mold carriers movably supported on the endless track for carrying a respective set of formworks for molding concrete into multiple concrete walls at a time, a concrete spouting unit set above the endless track and controlled to discharge a predetermined amount of concrete into each mold carrier, a vibrator unit set above the endless track and operable to vibrate the concrete in each mold carrier, and finished product collector unit set near one side of the endless track for collecting the finished concrete walls from each mold carrier for packing.

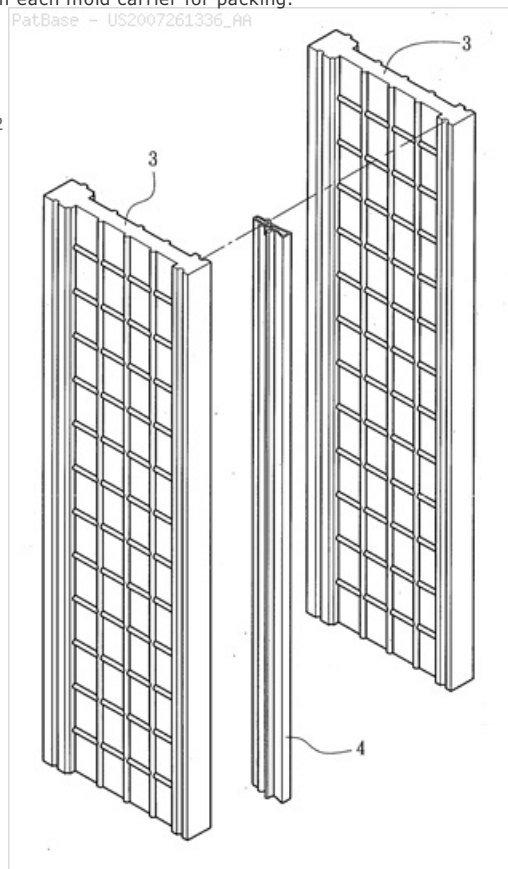
Classifications:

International (IPC 8-9): B28B7/44 E02D27/00 (Advanced/Invention); E02D27/00 (Core/Invention)

CPC: B28B1/0935 B28B5/04 B28B7/0011 B28B7/0082 B28B7/245 B28B23/02

European: B28B1/093B B28B5/04 B28B7/00A5 B28B7/24B2B L28B23/02 L28B7/00F6

US: 425/335 425/432 425/456 425/63 52/294 52/294P

**Family:**

Publication number	Publication date	Application number	Application date
US2007261336 AA	20071115	US20060430155	20060509
US7510384 BB	20090331	US20060430155	20060509

Priority:

US20060430155 20060509

Probable Assignee:

CHIOU CHI IUNG

Assignee(s): (std):

CHIOU CHI IUNG ; CHIOU CHI LUNG

Inventor(s): (std):

CHIOU CHI IUNG ; CHIOU CHI LUNG

Agent(s):

ROSENBERG KLEIN AND LEE

Title: PANEL SMOOTHING PROCESS AND APPARATUS FOR FORMING A SMOOTH CONTINUOUS SURFACE ON FIBER-REINFORCED STRUCTURAL CEMENT PANELS

Abstract: A vibrating flexible smoothing sheet or shroud disposed transversely of a direction of travel of a formed fiber panel including gypsum-cementitious slurry and embedded chopped fibers. The sheet is used to smooth the surface of the panel as it exits a fiber embedment station of a structural cementitious panel production line to remove grooves and other non-uniform surface imperfections to reduce the need for costly finishing after the panels are cured and cut to size. The flexible sheet is designed to float over the surface of the formed panel without tearing or otherwise damaging the surface of the heavily fiber reinforced surface layers of the panel. The vibrating sheet is pivotally mounted on the side dams of the web production line so it can float over the panel surface during use, but be raised off the line when not in use.

Classifications:

International (IPC 8-9): B28B1/08 B28B11/08 B28B3/12 B29C47/00

B32B13/00 B32B13/02 B32B3/18 (Advanced/Invention);

B32B13/02 (Advanced/Non-invention);

B28B11/08 B29C47/00 B32B13/00 (Core/Invention)

CPC: B01F3/1221 B01F3/1271 B01F7/00583 B01F15/0251 B28B11/0845

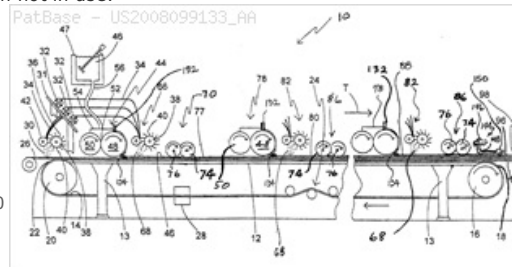
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US: 156/245 156/347 156/347S 156/42 156/42P 156/45 156/45S 156/500

156/500S 264/333 264/69 264/70



Family:

Publication number	Publication date	Application number	Application date
CA2668117 AA	20090430	CA20072668117	20071026
CA2668117 C	20151006	CA20072668117	20071026
CL2007003128 A1	20080104	CL20070003128	20071029
MX2009004606 A1	20090622	MX20090004606	20071026
US2008099133 AA	20080501	US20060555661	20061101
US2010132870 AA	20100603	US20100684638	20100108
US8038915 BB	20111018	US20100684638	20100108
WO08057273 A2	20080515	WO2007US22693	20071026
WO08057273 A3	20080731	WO2007US22693	20071026

Priority:

US20060555661 20061101 WO2007US22693 20071026 US20100684638 20100108

Probable Assignee: UNITED STATES GYPSUM CO

Assignee(s): (std): STIVENDER EUGENE SCOTT ; UNITED STATES GYPSUM CO

Assignee(s): UNITED STATES GYPSUM COMPANY

Inventor(s): (std): STIVENDER EUGENE SCOTT

Inventor(s): EUGENE SCOTT STIVENDER

Agent(s): GOWLING LAFLEUR HENDERSON LLP; CLARKE; NOVAK DRUCE AND QUIGG LLP ANTHONY P VENTURINO; NOVAK DRUCE AND QUIGG LLP; PHILIP T; DAVID F; VENTURINO ANTHONY P

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: EMBEDMENT DEVICE FOR FIBER REINFORCED STRUCTURAL CEMENTITIOUS PANEL PRODUCTION

Abstract: An embedment device for use in a cementitious panel production line such as a structural cementitious panel (SCP) production line wherein hydraulic cement slurry is transported on a moving web on a support frame, and chopped fibers are deposited upon the slurry. The device includes as one embodiment, a wire grid structure mounted on a reciprocating shaft driven by a piston which moves the grid down into the slurry and then up out of the slurry transverse of the travel of the slurry layer on the web. An alternative embodiment device includes a grid cell structure with thin walls extending upward from the grid surface in contact with the slurry that is moved up and down in a reciprocating motion transverse of the travel of the slurry layer on the web. The intermeshing relationship of the grid cell with the fiber and slurry enhances embedment of the fibers into the slurry and also prevents clogging of the device by fibers and prematurely set slurry particles.

Classifications:

International (IPC 8-9): B23B5/00 B28B1/26 B28B23/02 B32B13/00

B32B13/02 B32B31/00 B32B35/00 E04C1/00 (Advanced/Invention);

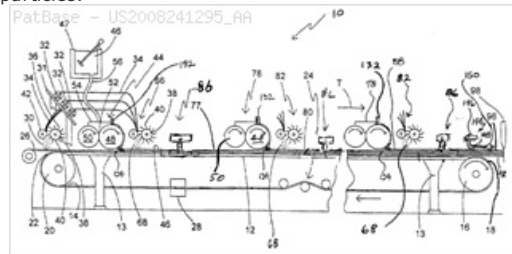
B32B13/02 (Advanced/Non-invention);

B23B5/00 B28B1/26 B32B13/00 (Core/Invention)

CPC: B28B1/522 B28B5/027 B28B23/0062 B28C5/34 B28C5/40

European: B28B1/52C B28B23/00U B28B5/02C2 B28C5/34 B28C5/40

US: 264/86 425/111 425/111P 425/84

**Family:**

Publication number	Publication date	Application number	Application date
CA2679456 AA	20090828	CA20082679456	20080326
CA2679456 C	20160607	CA20082679456	20080326
CL2008002936 A1	20090306	CL20080002936	20081001
MX2009010350 A1	20091019	MX20090010350	20080326
US2008241295 AA	20081002	US20070692540	20070328
US7794221 BB	20100914	US20070692540	20070328
WO08118929 A1	20081002	WO2008US58188	20080326

Priority:

US20070692540 20070328 WO2008US58188 20080326

Probable Assignee: UNITED STATES GYPSUM CO

Assignee(s): (std): DUBEY ASHISH ; UNITED STATES GYPSUM CO

Assignee(s): UNITED STATES GYPSUM COMPANY

Inventor(s): (std): DUBEY ASHISH

Inventor(s): DUBEY ; ASHISH DUBEY ; ASHISH

Agent(s): GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP; CLARKE; NOVAK DRUCE AND QUIGG LLP ANTHONY P VENTURINO; NOVAK DRUCE AND QUIGG LLP; VENTURINO ANTHONY P

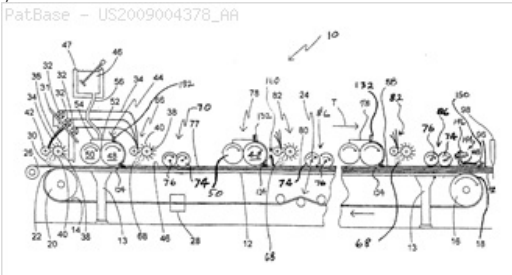
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA 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: METHOD FOR SMOOTHING CEMENTITIOUS SLURRY IN THE PRODUCTION OF STRUCTURAL CEMENTITIOUS PANELS

Abstract: A vibrating smoothing device or plate transverse to a direction of travel of deposited gypsum-cementitious slurry and embedded chopped fibers. The plate is used to smooth the top surface of the slurry panel as it exits a first fiber embedment station and a second slurry depositing station before passing through a second fiber embedment station of a structural cementitious panel production line to remove grooves and other non-uniform surface imperfections to have the slurry cover the embedded fibers The plate is designed to float over the surface of the formed slurry without tearing or otherwise damaging the surface of the heavily fiber reinforced surface layers of the formed slurry before it sets. The vibrating plate is pivotally mounted on the web production line so it can float over the panel surface during use, but be raised off the line when not in use.

Classifications:

International (IPC 8-9): B05C1/08 B05D1/00 B05D7/00 B28B1/093 B28B1/52 B28B13/02 B32B13/02 C04B28/14 (Advanced/Invention); B05C1/08 B05D1/00 B28B1/52 B28B13/00 B32B13/00 (Core/Invention)
CPC: Y02W30/92 Y02W30/94 B28B19/0092 B28B1/08 B28B1/29 B28B23/0006 C04B28/14 C04B2111/00612
European: B28B1/08 B28B1/29 B28B19/00K B28B23/00A C04B28/14 M04B111/00T6
US: 427/180 427/180P 427/403



Family:

Publication number	Publication date	Application number	Application date
CA2685810 AA	20091029	CA20082685810	20080620
CA2685810 C	20150407	CA20082685810	20080620
CL2008001923 A1	20081107	CL20080001923	20080627
JP2010532285 T2	20101007	JP20100515001T	20080620
JP5494976 B2	20140521	JP20100515001T	20080620
MX2009011779 A1	20091209	MX20090011779	20080620
US2009004378 AA	20090101	US20070771521	20070629
US8163352 BB	20120424	US20070771521	20070629
WO09006048 A2	20090108	WO2008US67731	20080620
WO09006048 A3	20090305	WO2008US67731	20080620

Priority:

US20070771521 20070629 WO2008US67731 20080620

Probable Assignee: UNITED STATES GYPSUM CO

Assignee(s): (std): JONES JOHN G ; UNITED STATES GYPSUM CO

Assignee(s): UNITED STATES GYPSUM COMPANY

Inventor(s): (std): JONES JOHN G

Inventor(s): JOHN G JONES

Agent(s): GOWLING LAFLEUR HENDERSON LLP; CLARKE; NOVAK DRUCE AND QUIGG LLP ANTHONY P VENTURINO; NOVAK DRUCE AND QUIGG LLP; DAVID F; PHILIP T; VENTURINO ANTHONY P

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI 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: Sheetting head stripper wire adjuster

Abstract: A stripper wire adjuster for sheetting heads having dough into sheet form between a pair of driven rollers and separated from one roller by the stripper wire held engaged under tension by guides positioned to align the stripper wire with opposite end peripheries of the roller and characterized by infinitely variable positioning of the stripper wire.

Classifications:

International (IPC 8-9): A21C3/02 (Advanced/Invention);

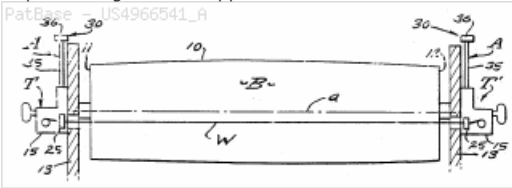
A21C3/00 (Core/Invention)

International (IPC 1-7): A21C3/02

CPC: A21C3/02

European: A21C3/02

US: 264/169 264/175 425/229 425/230 425/363 425/436R 426/389 426/502



Family:

Publication number	Publication date	Application number	Application date
■ US4966541 A	19901030	US19890342118	19890424

Priority:

US19890342118 19890424

Probable Assignee:

MISTRETTA JOSEPH L

Assignee(s): (std):

MISTRETTA JOSEPH L

Assignee(s):

MEYER TEMPCO INC

Inventor(s): (std):

MISTRETTA JOSEPH L

Title: ELASTIC MOLDED FOAM BASED ON POLYOLEFIN/STYRENE POLYMER MIXTURES

Abstract: Expandable, thermoplastic polymer bead material, comprising A) from 45 to 98.8 percent by weight of a styrene polymer, B1) from 1 to 45 percent by weight of a polyolefin whose melting point is in the range from 105 to 140 degrees centigrade, B2) from 0 to 25 percent by weight of a polyolefin whose melting point is below 105 degrees centigrade, C1) from 0.1 to 9.9 percent by weight of a styrene-butadiene block copolymer, C2) from 0.1 to 9.9 percent by weight of a styrene-ethylene-butylene block copolymer, D) from 1 to 15 percent by weight of a blowing agent, E) from 0 to 5 percent by weight of a nucleating agent where the entirety of A) to E) gives 100 percent by weight, and also processes for production of the same, and use for the production of elastic molded-foam moldings.

Classifications:

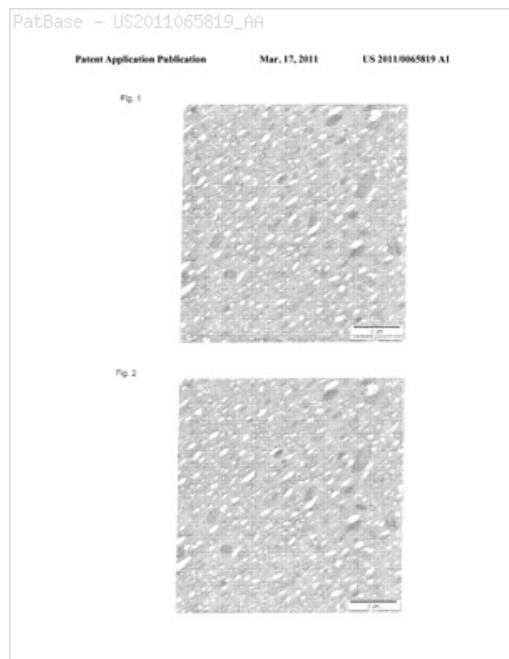
International (IPC 8-9): B29B9/12 B32B15/02 C08J9/00 C08J9/04 C08J9/06 C08J9/12 C08J9/16 C08J9/18 C08J9/22 C08J9/22A C08J9/232 C08J9/24 C08K3/34 C08L23/00 C08L23/02 C08L23/04 C08L25/04 C08L25/06 C08L25/08 C08L53/00 C08L53/02 (Advanced/Invention); B82Y30/00 C08J9/04 C08J9/14 C08J9/16 C08J9/18 C08J9/232 C08L23/00 C08L23/06 C08L23/08 C08L25/04 C08L25/06 C08L53/02 (Advanced/Non-invention); C08J9/00 C08L23/00 C08L25/00 C08L53/00 (Core/Invention); C08J9/18 C08J9/232 C08L23/04 C08L25/06 C08L53/00 C08L53/02 (Core/Non-invention)

International (IPC 1-7): C08J9/00 C08J9/232 C08L25/04

CPC: C08J9/141 C08J2325/06 C08J2353/02 C08J2423/08 C08L23/08 C08J2425/00 C08J9/0061 C08J2201/036 C08J2203/14 C08J2325/04 C08J2423/00 C08J2453/00 C08L23/04 C08L2203/14 C08J9/22 C08J9/24 C08J2423/06 C08J2425/08 C08J2425/10 C08K5/01 C08L23/06 C08L23/0815 C08L25/06 C08L53/025 C08L2205/02 C08L2205/035 Y10T428/2998 C08J9/00 C08J9/04 C08J9/232 C08L25/04 C08L53/02

European: C08J9/00L C08J9/14B C08J9/16 C08J9/232 C08L25/04 C08L25/06 M08J201/036 M08J203/14 M08J325/04 M08J325/06 M08J353/02 M08J423/00 M08J423/08 M08J425/00 M08J453/00 M08K5/01 M08L203/14 M08L205/02 M08L205/035 M08L23/04 M08L23/06 M08L23/08 M08L23/08A1 M08L53/02 M08L53/02B

US: 264/331.16 264/331.160P 264/54 264/54S 428/407 428/407P 521/134 521/139 521/139S 521/140 521/142 521/146 521/150 521/56 521/57 521/57P 521/59 521/59P 521/59S 521/91 521/91S 525/232 525/240 525/241 525/98 525/99 977/773 977/773S



Family:

Publication number	Publication date	Application number	Application date
BRPI0909438 A2	20151222	BR2009PI09438	20090312
BRPI0923799 A2	20150721	BR2009PI23799	20091215
BRPI0923911 A2	20160112	BR2009PI23911	20091216
BRPI1007842 A2	20161025	BR2010PI07842	20100301
CA2718001 AA	20090917	CA20092718001	20090312
CN101970554 A	20110209	CN200980108698	20090312
CN101970554 B	20130605	CN200980108698	20090312
CN102272222 A	201111207	CN200980153542	20091215
CN102272222 B	20131016	CN200980153542	20091215
CN102272223 A	20111207	CN200980153544	20091216
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CN102341442 B	20130605	CN201080010364	20100301
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EP2384354 B1	20130220	EP20090768097	20091215
EP2384355 A1	20111109	EP20090793519	20091216
EP2384355 B1	20130220	EP20090793519	20091216
EP2403900 A1	20120111	EP20100706223	20100301
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ES2402874 T3	20130510	ES20090768097T	20091215
IN06318CN2010 A	20110603	IN2010CN06318	20101005
JP2011529105 T2	20111201	JP20100550201T	20090312
JP5248630 B2	20130731	JP20100550201T	20090312
KR101353631 B1	20140218	KR201117023216	20100301
KR101554377 B1	20150918	KR20107022784	20090312

KR20100134031 A	20101222	KR20107022784	20090312
KR20110110280 A	20111006	KR20117017853	20091216
KR20110110281 A	20111006	KR20117017854	20091215
KR20110120982 A	20111104	KR20117023216	20100301
MX2010009533 A1	20100924	MX20100009533	20090312
MX2011009198 A1	20110928	MX20110009198	20100301
MY156035 A	20151231	MY20100004064	20090312
SG174165 A1	20111028	SG20110061801	20100301
TW200944558 A	20091101	TW20090108299	20090313
TW201038641 A	20101101	TW20100106519	20100305
TWI441864 B	20140621	TW20090108299	20090313
US2011065819 AA	20110317	US20090921526	20090312
US2011268972 AA	20111103	US20090142987	20091215
US2011269858 AA	20111103	US20090143029	20091216
US2011316198 AA	20111229	US20100254174	20100301
US8729143 BB	20140520	US20090142987	20091215
US8741973 BB	20140603	US20100254174	20100301
WO09112549 A1	20090917	WO2009EP52920	20090312
WO10076184 A1	20100708	WO2009EP67138	20091215
WO10076185 A1	20100708	WO2009EP67139	20091215
WO10076213 A1	20100708	WO2009EP67260	20091216
WO10100101 A1	20100910	WO2010EP52525	20100301

Priority:

EP20080152693	20080313	EP20080173084	20081230	EP20080173086	20081230
EP20080173087	20081230	EP20090154432	20090305	EP20090720933	20090312
WO2009EP52920	20090312	WO2009EP67138	20091215	EP20090768097	20091215
WO2009EP67260	20091216	EP20090793519	20091216	WO2010EP52525	20100301
EP20100706223	20100301				

Probable Assignee: BASF SE

Assignee(s): (std): GRAEBEL GEORG ; RUCKDAESCHEL HOLGER ; SCHIPS CARSTEN ; HAHN KLAUS ; HOFMANN MAXIMILIAN ; ZYLLA CHRISTOF ; LONGO DANIELA ; JANSSENS GEERT ; KNOLL KONRAD ; LAMBERT JUERGEN ; GRAESSEL GEORG ; HOFMANN MAXIMILLAN ; LAMBERT JURGEN ; HOFMANN MAXIMILLIAN ; ABMANN JENS ; ASMANN JENS ; ASSMANN JENS ; BASF SE ; GRAESEL GEORG ; GIETL ANDREAS ; BASF SE PATENTS TRADEMARKS AND LICENSES ; BASF AG

Assignee(s): GRAE BETA EL GEORG ; A BETA MANN JENS ; BASF SEDE

Inventor(s): (std): ASSMANN JENS ; GEORG GRAESEL ; GRAESSEL GEORG ; HOFMANN MAXIMILLAN ; JENS ASMANN ; KONRAD KNOLL ; KLAUS HAHN ; JUERGEN LAMBERT ; JENS ASSMANN ; MAXIMILIAN HOFMANN ; HOLGER RUCKDAESCHEL ; GRAESEL GEORG ; GRAEBEL GEORG ; GRAEAYEL GEORG ; GEORG GRASSEL ; GEERT JANSSENS ; DANIELA LONGO ; CHRISTOF ZYLLA ; CARSTEN SCHIPS ; ZYLLA CHRISTOF ; SCHIPS CARSTEN ; RUCKDAESCHEL HOLGER ; LONGO DANIELA ; LAMBERT JURGEN ; LAMBERT JUERGEN ; KNOLL KONRAD ; JANSSENS GEERT ; HOFMANN MAXIMILIAN ; HAHN KLAUS ; ASMANN JENS ; ANDREAS GIETL ; ABMANN JENS ; AAYMANN JENS ; HOFMANN MAXIMILLIAN ; GIETL ANDREAS ; LONGO SCHEDEL DANIELA ; GRASSEL GEORG ; GEORG GRAESSEL ; DANIELA LONGO SCHEDEL

Inventor(s): HAHN, Klaus ; GRAEssEL, Georg ; A BETA MANN JENS ; GRAE BETA EL GEORG ; AssMANN, Jens ; GIETL, Andreas ; HOFMANN, Maximilian ; LAMBERT, Juergen ; JANSSENS, Geert ; RUCKDASCHEL HOLGER ; ZYLLA, Christof ; SCHIPS, Carsten ; RUCKDAESCHEL, Holger

Agent(s): CARVAJAL Y ISABEL; NOVAK DRUCE CONNOLLY BOVE AND QUIGG LLP; DRINKER BIDDLE AND REATH LLP; BASF SE

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

Title: MANUFACTURING METHOD AND MANUFACTURING APPARATUS OF FIBER REINFORCED COMPOSITE MATERIAL

Abstract: A manufacturing method and a manufacturing apparatus of a fiber reinforced composite material are provided, in which the whole fiber-based material is impregnated with a resin and a molding can be performed with high dimensional accuracy. A manufacturing method of a fiber reinforced composite material according to the present invention includes fixing a fiber-based material having a first surface to a first mold to provide an opening for the first surface; setting a second mold having a second surface such that the first surface faces the second surface through a space; filling resin into the space; and relatively moving the second mold and the first mold to bring the second surface closer to the first surface, such that the fiber-based material is impregnated with the resin.

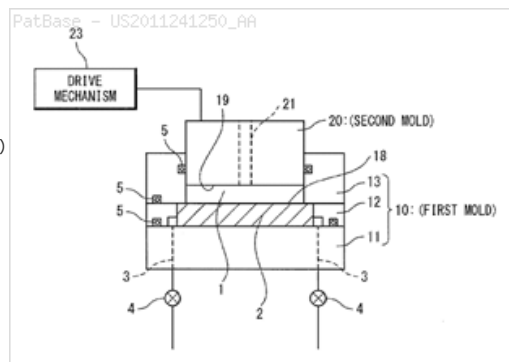
Classifications:

International (IPC 8-9): B29C39/10 B29C39/24 B29C39/26 B29C43/18 B29C43/34 B29C43/36 B29C70/06 B29C70/46 B29C70/54 B29K101/10 B29K105/08 (Advanced/Invention); B29C43/34 B29K101/10 B29K105/00 B29K105/08 (Advanced/Non-invention); B29C39/10 B29C43/18 B29C43/34 B29C43/36 B29C70/06 (Core/Invention)

CPC: B29C70/467 B29C43/36 B29C70/541 B29C2043/3444 B29K2105/0002 B29K2105/0872 B29C70/48

European: B29C43/36 B29C70/46C L29C43/34C L29K105/00C L29K105/08D

US: 264/258 264/258P 264/279 264/279.1 264/642 264/643 425/521 425/521S



Family:

Publication number	Publication date	Application number	Application date
BRPI0921988 A2	20160105	BR2009PI21988	20091118
CA2744180 AA	20110518	CA20092744180	20091118
CA2744180 C	20130903	CA20092744180	20091118
EP2364833 A1	20110914	EP20090827584	20091118
EP2364833 A4	20130710	EP20090827584	20091118
JP2010120271 A2	20100603	JP20080296127	20081119
JP5557997 B2	20140723	JP20080296127	20081119
US2011241250 AA	20111006	US20090129886	20091118
US9005506 BB	20150414	US20090129886	20091118
WO10058803 A1	20100527	WO2009JP69586	20091118

Priority:

JP20080296127 20081119 WO2009JP69586 20091118

Probable Assignee: MITSUBISHI HEAVY IND LTD

Assignee(s): (std): HORIZONO HIDEKI ; MITSUBISHI HEAVY IND LTD ; NISHIYAMA SHIGERU

Assignee(s): MITSUBISHI HEAVY INDUSTRIES LTD

Inventor(s): (std): HORIZONO HIDEKI ; NISHIYAMA SHIGERU

Inventor(s): SHIGERU NISHIYAMA ; HIDEKI HORIZONO

Agent(s): SMART AND BIGGAR; HENKEL BREUER AND PARTNER; WENDEROTH LIND AND PONACK LLP; KUDOH MINORU

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

Title: PRE-EXPANDED PARTICLES, PROCESS FOR PRODUCING THE SAME, AND EXPANDED MOLDED ARTICLE

Abstract: A process for producing pre-expanded particles, comprising the steps of:

- impregnating 100 parts by weight of polystyrene type resin particles with a volatile blowing agent in the presence of 0.1 to 2.0 parts by weight of a first antistatic agent to obtain expandable resin particles; and
- bringing 100 parts by weight of the expandable resin particles into contact with 0.1 to 2.0 parts by weight of a second antistatic agent in the presence of an antifoaming agent, and then pre-expanding the particles, thereby obtaining pre-expanded particles, wherein
- the second antistatic agent and the antifoaming agent are used in a ratio by weight of 1:0.04 to 1.50.

Classifications:

International (IPC 8-9): C08J9/16 C08J9/18 C08J9/22 C08J9/224 C08J9/228 C08K5/00 C08K5/06 C08L23/00 C08L25/04 C08L25/06 C08L71/02 (Advanced/Invention);

C08J9/00 (Core/Invention);

C08J9/18 C08J9/22 C08J9/228 C08L25/04 (Core/Non-invention)

CPC: C08J9/0014 C08J9/18 C08J2203/14 C08J2325/06 C08K5/0075

European: C08J9/00K C08J9/18 M08J203/14 M08J325/06

US: 521/56 521/57 521/58 521/60 521/60P

478968 - TWI478968_B

四、指定代表圖：

(一)本案指定代表圖為：第(無)圖。

(二)本代表圖之元件符號簡單說明：

無

五、本案若有化學式時，請揭示最能顯示發明特徵的化學式：

2

Family:

Publication number	Publication date	Application number	Application date
■ CN102264813 A	20111130	CN200980152708	20091225
■ CN102264813 B	20130911	CN200980152708	20091225
■ DE602009028607 D1	20150212	DE200960028607T	20091225
■ EP2371885 A1	20111005	EP20090835042	20091225
■ EP2371885 A4	20131002	EP20090835042	20091225
■ EP2371885 B1	20141224	EP20090835042	20091225
■ JP2010074246 A1	20120621	JP20100544166T	20091225
■ JP5548621 B1	20140716	JP20100544166T	20091225
■ KR101601347 B1	20160308	KR20117013898	20091225
■ KR20110115567 A	20111021	KR20117013898	20091225
■ TW201035194 A	20101001	TW20090145055	20091225
■ TWI478968 B	20150401	TW20090145055	20091225
■ US2011251296 AA	20111013	US20090140231	20091225
■ US8796344 BB	20140805	US20090140231	20091225
■ WO10074246 A1	20100701	WO2009JP71640	20091225

Priority:

JP20080333885 20081226

EP20090835042 20091225

WO2009JP71640 20091225

JP20100544166 20091225

Probable Assignee: SEKISUI PLASTICS CO LTD

Assignee(s): (std): GONDO YUICHI ; MATSUMURA HIDEYASU ; SEKISUI PLASTICS

Assignee(s): SEKISUI PLASTICS CO ; SEKISUI PLASTICS CO LTD ; SEKISUI PLASTICS CO LTD JP

Inventor(s): (std): GONDO YUICHI ; MATSUMURA HIDEYASU

Agent(s): HOFFMANN EITL PATENT U RECHTSANWAELTE PARTMBB; HOFFMANN EITL; NOGAWA SHINTARO; GREENBLUM AND BERNSTEIN PLC

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

Abstract: A system and method of making a plaster panel to use in the construction of a wall of a building in a relatively faster, easier, more efficient, and more precise manner for either interior or exterior walls is disclosed. The created plaster panels may include a slab of cementitious composition including a mixture of sizes of cut expanded polystyrene, a quantity of monofilament fiber, and a binding agent. At least one layer of a mesh may surround the slab, wherein the resulting panel is light in weight, flexible and strong. Such panels may be fixed in place to a building frame by suitable fasteners such as nails or screws, while causing little or no fracturing of the panel.

International (IPC 8-9): B32B13/14 B32B3/04 (Advanced/Invention)

B32B17/02 E04C2/043 C04B28/02 B32B5/02 B32B2250/40

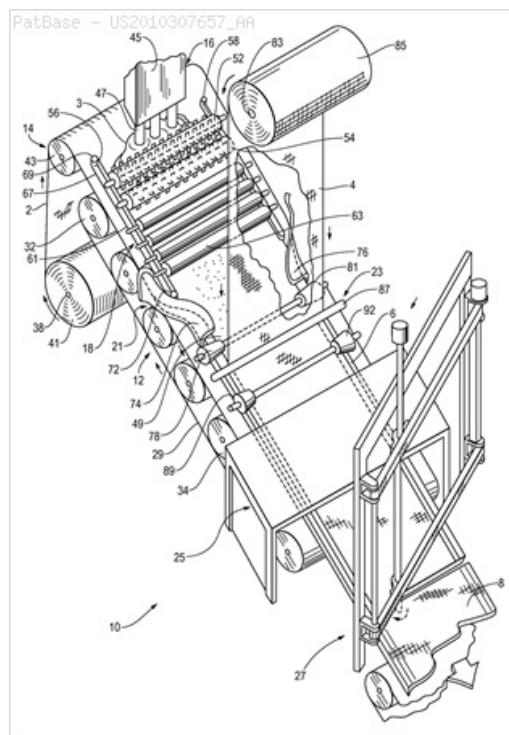
B32B2262/0253 B32B2262/101 B32B2264/0235 B32B2264/10

B32B2307/546 B32B2307/58 B32B2307/718 B32B2419/00 B32

European: B32B13/02 B32B13/14 B32B17/02 B32B3/04 B32B5/26

E04C2/04C

US: 156/34



Publication number	Publication date	Application number	Application date
US2010307657 AA	20101209	US20090480601	20090608

US20090480601 20090608

Probable Assignee: NEHEMIAH ELITE WALL SYSTEMS INC AN ARIZONA CORP

Assignee(s): (std): NEHEMIAH ELITE WALL SYSTEMS INC AN ARIZONA CORP

Assignee(s): NEHEMIAH ELITE WALL SYSTEMS INC

Inventor(s): (std): BRADLEY AUSTIN ROBERT ; DIAZ JR RUDY NICHOLAS ; KENYON III JOHN W ; SIMPSON JR GEORGE WENDELL

Agent(s): DUCKOR SPRADLING METZGER AND WYNNE A LAW CORP

Title: LIGNOCELLULOSE MATERIALS HAVING GOOD MECHANICAL PROPERTIES

Abstract: A process for the production of a lignocellulose-containing substance having an average density in the range from more than 600 to 900 kg/m³, in which, in each case based on the lignocellulose-containing substance: A) from 30 to 95 percent by weight of lignocellulose particles; B) from 1 to 25 percent by weight of expanded plastics particles having a bulk density in the range from 10 to 100 kg/m³; C) from 3 to 50 percent by weight of a binder selected from the group consisting of aminoplast resin, phenol-formaldehyde resin and organic isocyanate having at least two isocyanate groups and, if appropriate D) additives, are mixed and then pressed at elevated temperature and under elevated pressure.

Classifications:

International (IPC 8-9): B27N3/00 B32B21/08 B32B37/18 C08L97/02 (Advanced/Invention)

CPC: Y10T428/31957 B27N3/02 B27N3/005 C08L25/04 C08L61/20 C08L75/04 C08L97/02

European: B27N3/00F B27N3/02 C08L97/02 M08L25/04 M08L61/20 M08L75/04

US: 156/306.6 156/306.600S 428/528 428/528P 524/14 524/14S

Family:

Publication number	Publication date	Application number	Application date
CA2779362 AA	20110512	CA20102779362	20101102
EP2496647 A1	20120912	EP20100774200	20101102
US2012219815 AA	20120830	US20100508237	20101102
WO11054790 A1	20110512	WO2010EP66586	20101102

Priority:

US20090258614P 20091106 US20100508237 20101102 WO2010EP66586 20101102

Probable Assignee: BASF SE

Assignee(s): (std): BASF SE ; BRAUN FRANK ; SCHERR GUENTER ; SCHMIDT MICHAEL ; FINKENAUER MICHAEL ; PERETOLCHIN MAXIM ; WEINKOETZ STEPHAN ; VON AUENMUELLER JUERGEN ; AUENMUELLER JUERGEN VON

Assignee(s): AUENMUELLER JURGEN VON

Inventor(s): (std): AUENMUELLER JUERGEN VON ; AUENMUELLER JURGEN VON ; SCHERR GUENTER ; BRAUN FRANK ; FINKENAUER MICHAEL ; PERETOLCHIN MAXIM ; WEINKOETZ STEPHAN ; SCHMIDT MICHAEL ; VON AUENMUELLER JUERGEN

Agent(s): ROBIC ; BASF SE

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

Title: CEMENT BOARD HAVING REINFORCED EDGES

Abstract: A cement board having bare surfaces and a mesh of reinforcing fibers underlying the top, bottom, and longitudinal edge surfaces is made continuously on an improved apparatus which comprises a pair of edger rails which slidably rest on a conveyor belt and define the path of the cement board being made on the conveyor belt and a means for folding and pressing outer margins of the bottom mesh into the edge surfaces and the top surface.

Classifications:

International (IPC 8-9): B28B1/30 B28B1/52 B28B23/00 B28B23/02

B32B13/02 B32B3/04 B32B5/14 E04C2/04 E04C2/06

E04F13/14 (Advanced/Invention);

B28B1/30 B28B1/52 B28B23/02 B32B3/04 E04C2/04

E04F13/14 (Advanced/Non-invention);

B28B1/30 B28B1/52 B28B23/00 B28B23/02 B32B13/00 B32B3/04

B32B5/14 E04C2/04 E04C2/06 E04F13/14 (Core/Invention);

B28B (Subclass/Invention)

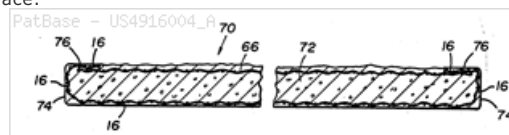
International (IPC 1-7): B28B1/30 B28B1/52 B28B23/02 B28B23/18 B28B3/00 B32B13/02 B32B23/02 B32B3/04 B32B3/18

B32B5/14 E04C2/00 E04C2/04 E04C2/06 E04F13/14

CPC: E04C2/06 B28B23/0006 Y10T428/24124 Y10T428/24777 Y10T428/24785

European: B28B23/00A E04C2/06

US: 156/348 156/40 156/42 428/113 428/192 428/193 428/247 428/251 428/255 428/273 428/703

**Family:**

Publication number	Publication date	Application number	Application date
AT105233 E	19940515	AT19870901221T	19870128
AU198770215 A1	19870909	AU19870070215	19870128
AU199058660 A1	19901011	AU19900058660	19900703
AU601968 B2	19900927	AU19870070215	19870128
AU628187 B2	19920910	AU19900058660	19900703
CA1290587 A1	19911015	CA19870528059	19870123
DE3789744 D1	19940609	DE19873789744	19870128
DE3789744 T2	19941208	DE19873789744T	19870128
DE3789744 T3	19990311	DE19873789744T	19870128
DK164579 B	19920720	DK19870005444	19871019
DK164579 C	19921207	DK19870005444	19871019
DK544487 A	19871019	DK19870005444	19871019
DK544487 A0	19871019	DK19870005444	19871019
EP0259376 A1	19880316	EP19870901221	19870128
EP0259376 A4	19900627	EP19870901221	19870128
EP0259376 B1	19940504	EP19870901221	19870128
EP0259376 B2	19980715	EP19870901221	19870128
FI874590 A	19871019	FI19870004590	19871019
FI874590 A0	19871019	FI19870004590	19871019
FI92167 B	19940630	FI19870004590	19871019
FI92167 C	19941010	FI19870004590	19871019
GB2188271 A1	19870930	GB19870004039	19870220
GB2188271 B2	19891129	GB19870004039	19870220
GB8704039 A0	19870325	GB19870004039	19870220
JP2673927 B2	19971105	JP19930064569	19870128
JP2673927 B2	19971105	JP19930064569	19930215
JP2673927 B2	19971105	JP19930064569	19930215
JP5080326 B4	19931108	JP19870501222	19870128
JP63502975 T2	19881102	JP19870501222	19870128
JP7102677 A2	19950418	JP19930064569	19870128
JP7102677 A2	19950418	JP19930064569	19930215
JP7102677 A2	19950418	JP19930064569	19930215
MX168743 B	19930607	MX19870005279	19870219
NO874345 A	19871019	NO19870004345	19871019
NO874345 A0	19871019	NO19870004345	19871019
US4916004 A	19900410	US19880290841	19881227
US4916004 B1	19920218	US19880290841	19881227
US5221386 A	19930622	US19890335020	19890407
WO8704976 A1	19870827	WO1987US00155	19870128

Priority:

US19860831706 19860220	CA19870528059 19870123	AU19870070215 19870128
EP19870901221 19870128	JP19870501222 19870128	WO1987US00155 19870128
US19880290841 19881227	US19890335020 19890407	

Probable Assignee: UNITED STATES GYPSUM CO

Assignee(s): (std): UNITED STATES GYPSUM CO ; YUU ESU JII CORP ; USG CORP

Assignee(s): UNITED STATES GYPSUM CO CHICAGO ILL US ; UNITED STATES GYPSUM CO LIBERTYVILLE ILL US ; WENZLOW LUKASCH LUDWIG ; UNITED STATES GYPSUM CO CHICAGO ILL ; UNITED STATES GYPSUM COMPANY ; ENSMINGER ROBERT P ; MCCLEARY ROBERT E

Inventor(s): (std): LUDWIG WENZLOW LUKASCH ; ROBERT E MCCLEARY ; ROBERT P ENSMINGER ; UENZUROU RUKATSUSHIYU RUDOUITS ; MCCLEARY ROBERT ; ENSMINGER ROBERT ; ENSMINGER ROBERT P ; WENZLOW LUKASCH LUDWIG ; UENZURO RUKATSUSHU RUDOITSUGU ; MCCLEARY ROBERT ELLIOT ; MAKURIARII ROBAATO

ERIOTSUTO ; ENSUMINGAA ROBAATO PIIRU ; ENSMINGER ROBERT PEEL ; MCCLEARY ROBERT E
Inventor(s): ENSMINGER ROBERT PEEL CARMAN IL 61425 ; ROBERT PEEL ENSMINGER ; ROBERT ELLIOT MCCLEARY ;
WENZLOW LUKASCH LUDWIG DEERFIELD IL 60015 ; MCCLEARY ROBERT ELLIOT GENEVA IL 60134 ;
ENSMINGER ROBERT PEEL CARMAN IL 61425 US ; UENZUROU RUKATSUSHIYU RUDOUITSUGU ; WENZLOW
LUKASCH LUDWIG DEERFIELD IL 60015 US ; MCCLEARY ROBERT ELLIOT GENEVA IL 60134 US
Agent(s): GRIFFITH HACK; MACRAE AND CO
Designated states: AT AU BE DE DK FI FR IT JP NL NO SE

Title: Insulated concrete building panels and method of making the same

Abstract: A three-layer insulated concrete panel includes as the middle layer an insulating slab having grooves which provide a form for casting of concrete supporting ribs integral with a layer of concrete cast over the grooved face. A layer of material, such as particle board, is bonded to the ungrooved face of the slab. In preparing the panel, the slab is placed on a flat surface with the particle board face down. Forms are then placed in spaced-apart relation to panel edges, and concrete is cast into the forms and grooves and over the grooved panel face. The insulating slab provides a form for casting of supporting ribs and is permanently retained in the panel, giving it a high insulating value.

Classifications:

International (IPC 8-9): E04B5/02 E04C2/04 E04C2/288

E04C2/38 (Advanced/Invention)

International (IPC 1-7): E04B1/60 E04C1/06 E04C1/28 E04C1/40 E04D11/02

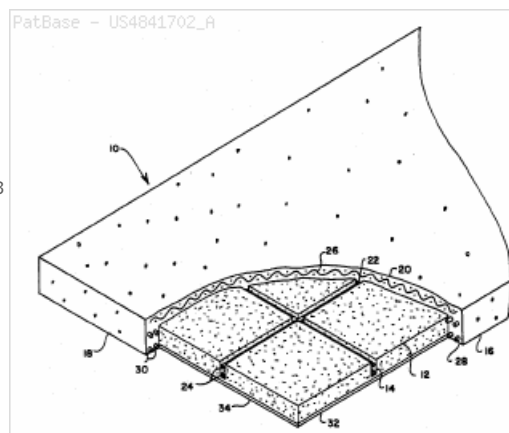
CPC: E04B5/04 E04C2/044 E04C2/288 E04C2/382

European: E04B5/04 E04C2/04D E04C2/288 E04C2/38B

US: 264/32 264/34 264/35 264/45.1 264/46.6 52/259 52/309.11

52/309.12 52/405.3 52/602 52/612 52/741.41 52/742.1 52/742.14 52/743

52/745 52/745.13 52/794.1 52/809



Family:

Publication number	Publication date	Application number	Application date
US4841702 A	19890627	US19880158476	19880222
US4942707 A	19900724	US19890371915	19890627
US5095674 A	19920317	US19900516467	19900430

Priority:

US19880158476 19880222 US19890371915 19890627 US19900516467 19900430

Probable Assignee: HUETTEMANN ERIK W

Assignee(s): (std): HUETTEMANN ERIK W

Inventor(s): (std): HUETTEMANN ERIK W

Title: THREE DIMENSIONALLY REINFORCED FABRIC CONCRETE

Abstract: Reinforced cement structures are provided which are reinforced in three dimensions and comprise at least one nonwoven spatial fabric reinforcing material encapsulated in a cementitious composition which preferably has controlled water bleed characteristics. The cementitious composition comprises, for example, hydraulic cement, a gelling agent, water and optionally a dispersing agent. The nonwoven fabric reinforcing material can extend substantially throughout the whole of the cement structure. Alternatively, a plurality of reinforcing layers can be utilized in a sandwich or composite type structure in which the various reinforcing layers are separated by a layer of cementitious composition. The nonwoven fabric reinforcing material can also have, on at least one of its surfaces, a woven or non-woven scrim reinforcing material to impart additional strength properties to the structure. The structures can take the form of panels which can be cold formed into curved structures. The structures can also take the form of load-bearing structures suitable for use as roadbeds, in bridge construction and the like.

Classifications:

International (ipc 8-9): B32B13/14 C04B28/02 E04C2/06 E04C2/32 E04C5/07 (Advanced/Invention);

B32B13/00 C04B28/00 E04C2/06 E04C2/32 E04C5/07 (Core/Invention)

International (ipc 1-7): B32B5/12

CPC: C04B28/02 C04B2111/00612 E04C2/328 E04C5/07 Y10T428/24058 Y10T428/24124 Y10T428/249921 Y10T442/159 Y10T442/197 B32B13/14 B32B1/00 B32B2305/08 B32B2419/00 B32B2607/00 E04C2/06

European: B32B13/14 C04B28/02 E04C2/06 E04C2/32D E04C5/07 M04B111/00T6

US: 264/333 404/70 428/105 428/113 428/221 428/703 442/35 442/57 52/782.1



Family:

Publication number	Publication date	Application number	Application date
US4617219 A	19861014	US19840685481	19841224

Priority:

US19840685481 19841224

Probable Assignee: FRCC RESEARCH LIABILITY CORP LTD

Assignee(s): (std): SCHUPACK MORRIS

Assignee(s): FRCC RESEARCH LIABILITY CORP LTD ; FRCC RESEARCH LTD

Inventor(s): (std): SCHUPACK MORRIS

Title: HIGH PERFORMANCE, REINFORCED INSULATED PRECAST CONCRETE AND TILT-UP CONCRETE STRUCTURES AND METHODS OF MAKING SAME

Abstract: The invention comprises a product. The product comprises a foam insulating panel, the panel having a first primary surface and an opposite second primary surface, wherein the foam insulating panel defines at least one recessed channel in the first primary surface, the at least one recessed channel being sized and shaped to provide a mold for a structural reinforcing member. The product also comprises a concrete panel formed on the first primary surface and filling the at least one recessed channel so as to provide a structural reinforcing member for the concrete panel. The product further comprises an elongate anchor member in the foam insulating panel and extending from the first primary surface of the foam insulating panel into the concrete panel. A method of making a composite reinforced insulated concrete structure is also disclosed.

Classifications:

International (IPC 8-9): E04B1/00 E04B1/74 E04B2/84 E04B7/22

E04C1/00 E04C2/04 E04C2/06 E04C2/20 E04C2/26 E04C2/288

E04C2/296 E04C5/12 E04C5/16 E04D3/35 E04G21/00 E04G21/16

E04G23/00 (Advanced/Invention);

E04B1/04 E04B1/24 E04B1/41 F16L59/00 (Advanced/Non-invention)

CPC: E04C2/205 E04C2/049 E04B2/847 E04C2/06 E04C2/296 E04B1/04

E04B1/4121 E04B7/22 E04B2001/2481 E04B2001/2484 E04B2001/4192

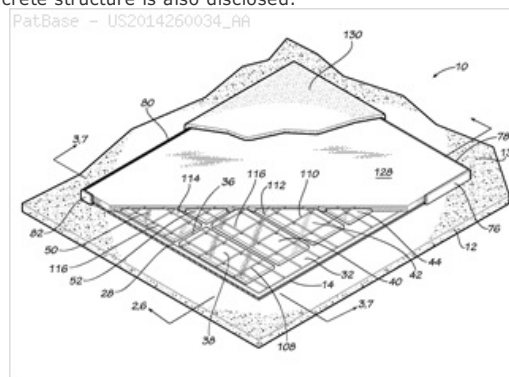
F16L59/00 Y10T428/24504 Y10T428/24512 E04B2103/02 E04G21/165

E04C5/16 E04C2/26 E04C2/044 E04C2/288 E04C5/12 E04C5/125

E04C5/127 H05K999/99 E04B5/02 E04C5/168 Y02A30/261 Y02B30/94

US: 1/1 428/159 428/160 52/223.1 52/223.13 52/309.11 52/309.12

52/405.3 52/612 52/679 52/741.4 52/742.1 52/742.14 52/745.05



Family:

Publication number	Publication date	Application number	Application date
US2014260034 AA	20140918	US20130834574	20130315
US2015007524 AA	20150108	US20140499208	20140928
US2015218809 AA	20150806	US20150684899	20150413
US2016201327 AA	20160714	US20160075171	20160320
US2016340901 AA	20161124	US20160230950	20160808
US2017370101 AA	20171228	US20170671986	20170808
US2018274234 AA	20180927	US20180990759	20180528
US8844227 BA	20140930	US20130834574	20130315
US9003740 BB	20150414	US20140499208	20140928
US9290939 BB	20160322	US20150684899	20150413
US9410321 BB	20160809	US20160075171	20160320
US9745749 BB	20170829	US20160230950	20160808
US9982433 BB	20180529	US20170671986	20170808

Priority:

US20130834574 20130315
US20160075171 20160320
US20180990759 20180528

US20140499208 20140928
US20160230950 20160808

US20150684899 20150413
US20170671986 20170808

Probable Assignee:

CIUPERCA ROMEO ILARIAN

Assignee(s): (std):

CIUPERCA ROMEO ILARIAN

Inventor(s): (std):

CIUPERCA ROMEO ILARIAN

Agent(s):

ROBERT E; RICHARDS IP LAW

Title: METHOD OF PREPARING EXPANDABLE POLYSTYRENE

Abstract: A process for the expansion of an expandable, polymeric, bead material by exposing the bead material to steam at an elevated temperature, to effect the expansion of the bead material into a polymeric bead material form, while tumbling the bead material during expansion to prevent fusion, the improvement which comprises: employing as a lubricant for the bead material a lubricant material which, on exposure to the steam and prior to the end of the expansion of the bead material, is changed in lubricant characteristics, to provide an expanded, polymeric foam bead material having a reduced surface lubricity.

Classifications:

International (IPC 8-9): B29C44/34 C08J9/224 (Advanced/Invention);
B29C44/34 C08J9/00 (Core/Invention)

International (IPC 1-7): C04B33/32 C12P33/14 F27B14/00

CPC: B29C44/3461 C08J9/224 Y10S264/09

European: B29C44/34H C08J9/224

US: 264/300 264/51 264/DIG.9 432/13 521/154 521/56 521/57 521/59 521/60

Family:

Publication number	Publication date	Application number	Application date
 US4302549 A	19811124	US19800141632	19800418

Priority:

US19800141632 19800418

Probable Assignee:

CROWLEY RICHARD P

Assignee(s): (std):

CROWLEY RICHARD P

Inventor(s): (std):

CROWLEY RICHARD P

Title: DIMENSIONALLY ACCURATE EXPANDED FOAM CASTING PATTERN

Abstract: A method is disclosed for heating pre-expanded foundry pattern molding beads of polystyrene or the like in a stream of hot air to reduce the vapor-forming expansion agent content for the purpose of producing more dimensionally accurate, molded foam bead casting patterns.

Classifications:

International (IPC 8-9): B22C7/02 B29C44/34 B29C44/44

C08J9/232 (Advanced/Invention);

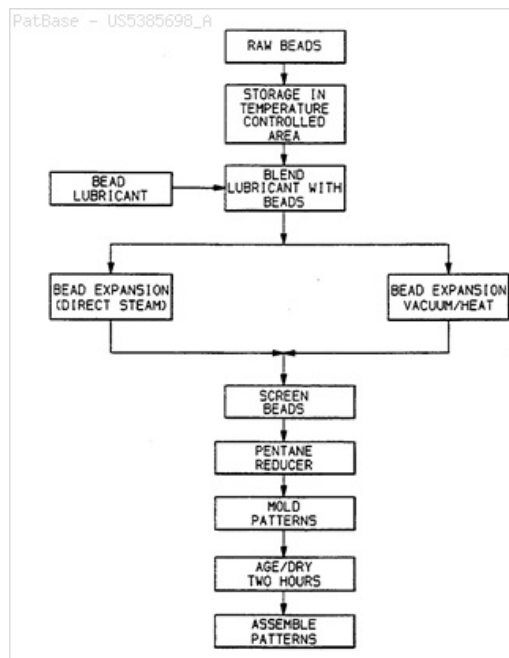
B22C7/00 B29C44/34 (Core/Invention)

International (IPC 1-7): B22C7/02 B29C67/22 C08J9/232

CPC: Y10S264/09 Y10S264/15 B29C44/34 B22C7/023 B29C44/445

European: B22C7/02B B29C44/34 B29C44/44B

US: 264/53 264/55 264/DIG.15 264/DIG.9



Family:

Publication number	Publication date	Application number	Application date
CA2081427 AA	19931024	CA19922081427	19921026
CA2081427 C	19970805	CA19922081427	19921026
US5385698 A	19950131	US19920871976	19920423

Priority:

US19920871976 19920423 CA19922081427 19921026

Probable Assignee: SATURN CORP

Assignee(s): (std): SATURN CORP

Assignee(s): VAN RYCKEGHEM PATRICK J ; BISHOP GARY E ; SATURN A CORP OF DE CORP

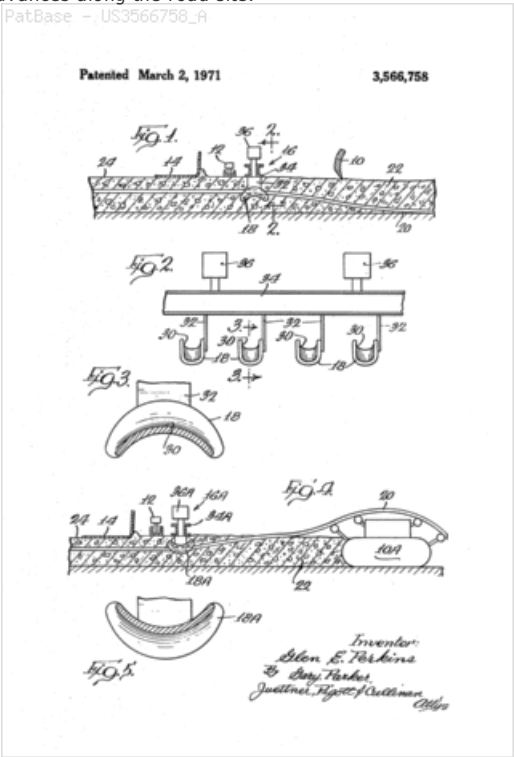
Inventor(s): (std): BISHOP GARY E ; VAN RYCKEGHEM PATRICK J

Agent(s): GOWLING LAFLEUR HENDERSON LLP

Title: CONTINUOUSLY REINFORCED CONCRETE PAVING APPARATUS

Abstract: (Claim 1) 1. In concrete paving apparatus movable along a rod site and including means for placing, leveling and finishing fluid concrete deposited on the site, and a plurality of spaced parallel reinforcing rod placement members forwardly of said finishing means for immersion in the fluid concrete, of the number and at the transverse spacings specified for reinforcing rods to be imbedded in the concrete, the improvement comprising rod placement members rearwardly of the concrete placing means and forwardly of the finishing means each having a rod guiding groove disposed longitudinally of the site and including a first portion adapted to be immersed in the fluid concrete and located at the vertical elevation and the transverse spacing required for a respective reinforcing rod and a second portion extending arcuately forwardly and vertically from said first portion so as to be disposed adjacent one surface of the concrete, each said portion including a base wall and sidewalls for receiving a respective rod placed on or adjacent said one surface of the concrete and for guiding the rod from said one surface to its final intended position in the concrete, both vertically and horizontally, as the machine advances along the road site.

Classifications:
International (IPC 8-9): E01C23/04 (Advanced/Invention);
E01C23/00 (Core/Invention)
International (IPC 1-7): E01C19/00 E01C23/04
CPC: E01C23/04
European: E01C23/04
US: 404/100 404/133.05



Family:

Publication number	Publication date	Application number	Application date
US3566758 A	19710302	US19690820214	19690429

Priority:

US19690820214 19690429

Probable Assignee: GLEN E PERKINS
Assignee(s): (std): GLEN E PERKINS
Inventor(s): (std): PERKINS GLEN E
Inventor(s): GLEN E PERKINS