

Search history

Search 1: CPC=(b29b and b01f and b28b and b28c and b29c and b01f) (Results 9)

1) Family number: 68497095 (US2018036693A)

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Title: METHOD FOR PRODUCING FIBER REINFORCED CEMENTITIOUS SLURRY USING A MULTI-STAGE CONTINUOUS MIXER

Abstract: A method in which a stream of dry cementitious powder from a dry powder feeder passes through a dry cementitious powder inlet conduit to feed a first feed section of a fiber-slurry mixer. An aqueous medium stream passes through at least one aqueous medium stream conduit to feed a first mixing section the fiber-slurry mixer. A stream of reinforcing fibers passes from a fiber feeder through a reinforcing fibers stream conduit to feed a second mixing section of the fiber-slurry mixer. The stream of dry cementitious powder, aqueous medium stream, and stream of reinforcing fibers combine in the fiber-slurry mixer to make a stream of fiber-cement mixture which discharges through a discharge conduit at a downstream end of the mixer.

Classifications:

International (IPC 8-9): B01F13/10 B01F15/02 B01F3/12 B01F7/00 B01F7/04 B01F7/06 B01F7/08 B28B1/52 B28B3/22 B28B5/02 B28C5/12 B28C5/14 B28C5/40 B29B7/48 B29C47/64 B29C48/67 (Advanced/Invention);

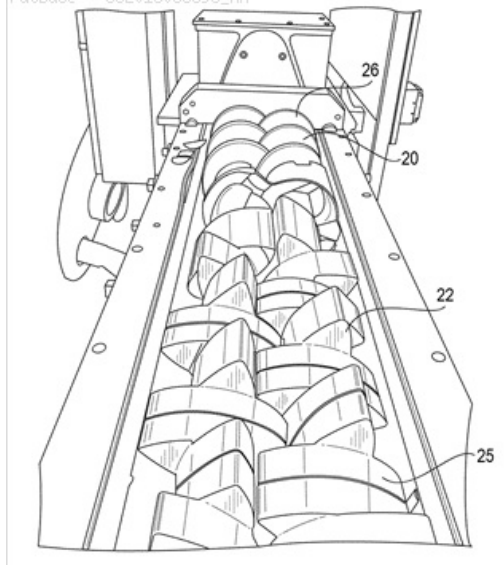
B01F15/02 (Advanced/Non-invention)

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CPC: B29C48/022 B29C48/402 B29C48/57 B01F3/1221 B01F7/0065 B01F7/00708 B01F7/042 B01F7/085 B01F2015/0221 B28B1/526 B28B3/224 B28B5/027 B28C5/1238 B28C5/1246 B28C5/143 B28C5/146 B28C5/148 B28C5/402 B29B7/421 B29B7/429 B29B7/481 B29B7/482 B29B7/483 B29B7/485 B29B7/489 B29C48/67 B01F7/00041 B01F7/00058 B01F7/00341 B01F7/00416 B01F7/00633 B01F7/06 B01F7/083 B01F13/1027 B01F15/0251 B01F2215/0047 B28C5/1276

US: 1/1 366/2

PatBase - US2018036693_AA



Family:

Publication number	Publication date	Application number	Application date
AU2017305506 AA	20190314	AU20170305506	20170804
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CA3032833 AA	20190201	CA20173032833	20170804
CL2019000296 A1	20190614	CL20190000296	20190204
CN109562529 A	20190402	CN201780048784	20170804
CO20190001770 A2	20190318	CO20190001770	20190226
EP3493959 A1	20190612	EP20170769136	20170804
ID201906988 A	20190920	ID2019PID01606	20170804
IN201917007117 A	20190510	IN201917007117	20190222
JP2019524499 T2	20190905	JP20190504898T	20170804
KR20190039416 A	20190411	KR20197005746	20170804
MX2019001495 A1	20190704	MX20190001495	20170804
PE20190285 A1	20190227	PE20190000339	20170804
US2018036693 AA	20180208	US20170663104	20170728
US2019217259 AA	20190718	US20190361551	20190322
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WO18027095 A1	20180208	WO2017US45426	20170804

Priority:

US20160371590P 20160805 US20170663104 20170728 WO2017US45426 20170804
US20190361551 20190322

Probable Assignee: UNITED STATES GYPSUM CO

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

Assignee(s): DUBEY ASHISH ; GROZA PETER B ; NELSON CHRISTOPHER R

Inventor(s): (std): ASHISH DUBEY ; PETER B GROZA ; CHRISTOPHER R NELSON ; DUBEY ASHISH ; GROZA PETER B ; NELSON CHRISTOPHER R

Agent(s): MADDERNS PTY LTD; JAMES AND WELLS INTELLECTUAL PROPERTY; GOWLING WLG CANADA LLP; ALESSANDRI AND COMPANIA LIMITADA; FINDLAY ALICE ROSEMARY; MAULITTA PRAMULASARI; VORYS SATER SEYMOUR AND PEASE LLP; SAHU PRADIP; PETTI PHILIP T; VENTURINO ANTHONY 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 DJ 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 JO JP KE KG KH KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

2) Family number: 68497106 (US2018036912A)

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Title: CONTINUOUS METHODS OF MAKING FIBER REINFORCED CONCRETE PANELS

Abstract: Continuous method including:

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- mixing water and cementitious powder to form slurry;
- mixing the slurry and reinforcement fibers in a single pass horizontal continuous mixer to form fiber-slurry mixture,
- the mixer including
- an elongated mixing chamber having a reinforcement fiber inlet port, and
- upstream of the fiber inlet port is an inlet port to introduce water and cementitious powder together as one stream or at least two inlet ports to introduce water and dry cementitious powder separately as separate streams into the chamber,
- a rotating horizontal shaft/s within the chamber,
- part of the chamber for mixing the fibers and slurry and moving the fiber-slurry mixture to a mixture outlet;
- discharging the fiber-slurry mixture from the mixer outlet;
- forming and setting the fiber-slurry mixture on a moving surface;
- cutting the set mixture into fiber reinforced concrete panels and removing the panels from the moving surface.

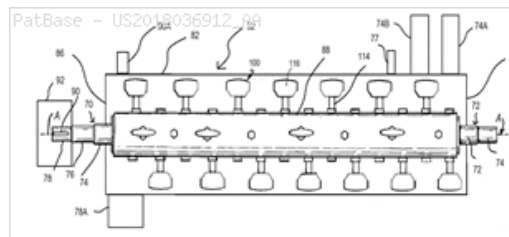
Classifications:

International (IPC 8-9): B01F3/12 B01F7/00 B01F7/04 B01F7/08 B28B1/52 B28B13/02 B28B3/22 B28B5/02 B28C5/12 B28C5/14 B28C5/40 B28C7/04 B29B7/48 B29C47/64 B29C48/67 (Advanced/Invention)

International (IPC 1-7): B01F3/12 B01F7/00 B01F7/04 B01F7/08 B28B1/52 B28B3/22 B28B5/02 B28C5/12 B28C5/14 B28C5/40 B29B7/48 B29C47/64

CPC: B01F3/1221 B01F7/0065 B01F7/00708 B01F7/042 B01F7/085 B01F2015/0221 B28B1/526 B28B3/224 B28B5/027 B28C5/1238 B28C5/1246 B28C5/143 B28C5/146 B28C5/148 B28C5/402 B29B7/44 B29B7/483 B29B7/488 B29B7/72 B29B7/90 B29B7/482 B29C48/67 B28B1/522 B28B13/0275 B28C5/1284 B28C7/0418 B01F3/2042 B01F7/048 B05C1/0834

US: 1/1 414/683



Family:

Publication number	Publication date	Application number	Application date
AU2017305511 AA	20190307	AU20170305511	20170804
BR112019001847 A2	20190507	BR20191101847	20170804
CA3032834 AA	20190201	CA20173032834	20170804
CL2019000280 A1	20190422	CL20190000280	20190201
CN109562528 A	20190402	CN201780047253	20170804
CO20190001768 A2	20190308	CO20190001768	20190226
EP3493958 A1	20190612	EP20170758316	20170804
ID201906423 A	20190830	ID2019PID01607	20170804
IN201917007518 A	20190517	IN201917007518	20190226
JP2019527638 T2	20191003	JP20190504886T	20170804
KR20190039150 A	20190410	KR20197004801	20170804
MX2019001256 A1	20190520	MX20190001256	20170804
PE20190220 A1	20190213	PE20190000284	20170804
US2018036912 AA	20180208	US20170663007	20170728
WO18027100 A1	20180208	WO2017US45433	20170804

Priority:

US20160371554P 20160805 US20170663007 20170728 WO2017US45433 20170804

Probable Assignee: UNITED STATES GYPSUM CO

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

Assignee(s): DUBEY ASHISH ; GROZA PETER B ; NELSON CHRISTOPHER R

Inventor(s): (std): CHRISTOPHER R NELSON ; PETER B GROZA ; ASHISH DUBEY ; DUBEY ASHISH ; GROZA PETER B ; NELSON CHRISTOPHER R

Agent(s): MADDERNS PTY LTD; JAMES AND WELLS INTELLECTUAL PROPERTY; GOWLING WLG CANADA LLP; ALESSANDRI AND COMPANIA LIMITADA; FINDLAY ALICE ROSEMARY; MAULITTA PRAMULASARI; VENTURINO ANTHONY 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 DJ 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 JO JP KE KG KH KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: MOLDED ARTICLES HAVING AN INORGANICALLY FILLED ORGANIC POLYMER MATRIX

Abstract: Compositions, methods, and systems for manufacturing articles, particularly containers and packaging materials, having a highly inorganically filled matrix. Suitable inorganically filled mixtures are prepared by mixing together an organic polymer binder, water, one or more aggregate materials, fibers, and optional admixtures in the correct proportions in order to form an article which has the desired performance criteria. The inorganically filled mixtures are molded to fashion a portion of the mixture into a form stable shape for the desired article. Once the article has obtained form stability, the article is removed from the mold and allowed to harden to gain strength. The articles may have properties substantially similar to articles presently made from traditional materials like paper, paperboard, polystyrene, plastic, or metal. They have especial utility in the mass production of containers, particularly food and beverage containers.

Classifications:

International (IPC 8-9): B01F3/12 B27N3/00 B28B1/00 B28B1/52 B28B11/00 B28B13/02 B28B13/06 B28B23/00 B28B3/00 B28B3/02 B28B3/12 B28B3/20 B28B3/26 B28B7/42 B28C7/02 B29C43/00 B29C43/02 B29C43/06 B29C43/08 B29C43/22 B29C43/24 B29C43/34 B29C43/36 B29C43/46 B29C44/04 B29C45/00 B29C49/00 B29C49/06 B29C51/00 B29C51/04 B29C51/10 B29C53/06 B29C55/18 B29C67/24 B29C70/50 B29C71/00 B31B17/00 B32B13/02 B32B27/04 B32B27/20 B32B37/14 B32B5/02 B32B5/18 B32B9/00 B65D1/26 B65D13/00 B65D43/16 B65D5/00 B65D65/38 B65D65/46 C04B14/06 C04B16/02 C04B20/00 C04B22/04 C04B24/00 C04B24/14 C04B24/38 C04B26/00 C04B26/02 C04B26/28 C04B28/00 C04B28/02 C04B38/00 C04B40/00 C04B41/45 C04B41/61 C08J5/18 C08L1/28 C08L3/00 C08L3/02 C08L5/02 C08L5/12 C08L5/14 C08L89/06 C08L97/02

E05D1/02 (Advanced/Invention);

B05B11/00 B05C1/08 B05C3/18 B05C5/02 B29C49/04 B29C51/08

B29C53/58 B32B37/12 (Advanced/Non-invention)

International (IPC 1-7): B32B3/26 B65D13/00 B65D85/30

CPC: Y10S206/819 Y10S428/906 B01F2003/125 B05B11/0037 B05C1/0826 B05C1/0834 B05C3/18 B05C5/0245 B27N3/002 B27N3/007 B28B1/00 B28B1/52 B28B3/00 B28B3/126 B28B3/20 B28B3/2645 B28B7/42 B28B11/00 B28B11/003 B28B11/008 B28B13/021 B28B13/06 B28B23/00 B28B23/0081 B28B23/0087 B28C7/02 B29B2911/1402 B29B2911/14026 B29B2911/14033 B29B2911/1404 B29B2911/14106 B29B2911/14133 B29C33/10 B29C43/00 B29C43/003 B29C43/02 B29C43/06 B29C43/08 B29C43/22 B29C43/222 B29C43/24 B29C43/34 B29C43/36 B29C44/0407 B29C45/0013 B29C49/0005 B29C49/0047 B29C49/04 B29C49/06 B29C49/063 B29C51/002 B29C51/04 B29C51/08 B29C51/082 B29C51/10 B29C53/063 B29C53/58 B29C55/18 B29C67/24 B29C67/242 B29C67/243 B29C70/50 B29C71/0009 B29C2043/3222 B29C2043/3433 B29C2043/3623 B29C2043/3689 B29C2043/466 B29C2043/5841 B29C2049/4608 B29C2791/006 B29C2795/007 B29K2001/00 B29K2003/00 B29K2005/00 B29K2089/00 B29K2105/12 B29K2105/16 B29L2024/00 B29L2031/608 B29L2031/712 B29L2031/7132 B31D1/005 B32B5/02 B32B5/18 B32B9/00 B32B13/02 B32B27/04 B32B27/20 B32B37/00 B32B37/12 B32B37/144 B65D5/00 B65D11/02 B65D43/162 B65D65/38 B65D65/466 B65D2301/20 B65D2565/385 C04B14/064 C04B16/02 C04B20/002 C04B20/0048 C04B22/04 C04B24/00 C04B24/14 C04B24/38 C04B26/00 C04B26/02 C04B26/026 C04B26/28 C04B26/285 C04B28/00 C04B28/02 C04B38/0006 C04B40/00 C04B40/006 C04B41/009 C04B41/45 C04B41/61 C04B2111/00129 C04B2111/00413 C04B2111/00612 C04B2111/00948 C08J5/18 C08J2323/02 C08L1/28 C08L1/286 C08L3/00 C08L3/02 C08L5/02 C08L5/12 C08L5/14 C08L89/06 C08L97/02 E05D1/02 E05Y2900/538 E05Y2900/602 Y10T428/1314 Y10T428/1348 Y10T428/1352 Y10T428/1355 Y10T428/1372 Y10T428/1376 Y10T428/1379 Y10T428/15 Y10T428/17 Y10T428/24446 Y10T428/24694 Y10T428/269 Y10T428/24994 Y10T428/31971 Y10T428/249953 Y10T428/249968 Y10T428/249969 Y10T428/249974 Y10T428/249986 B29C44/3402 B31B50/32 B31B2105/0022 B29C48/0011 B29C48/0017 B29C48/0019 B29C48/03 B29C48/08 B29C48/12 B05B1/34 B01F3/1214

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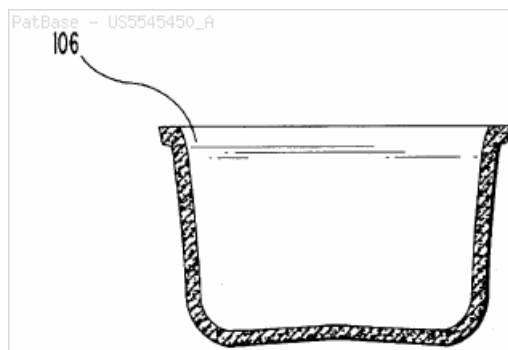
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Family:

Publication number	Publication date	Application number	Application date
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Priority:

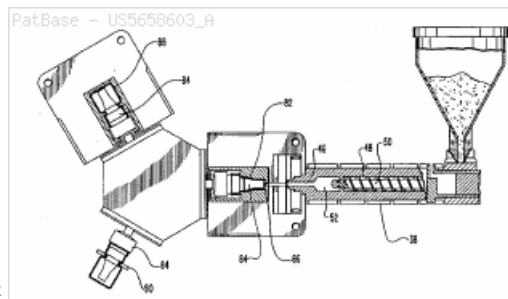
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Probable Assignee: E KHASHOGGI IND LLC**Assignee(s):** (std): KHASHOGGI E IND**Assignee(s):** E KHASHOGGI IND ; E KHASHOGGI IND LLC ; E KHASHOGGI INDUSTRIES**Inventor(s):** (std): ANDERSEN PER JUST ; HODSON SIMON K**Inventor(s):** ANDERSEN PER J**Title:** SYSTEMS FOR MOLDING ARTICLES HAVING AN INORGANICALLY FILLED ORGANIC POLYMER MATRIX

Abstract: Compositions, methods, and systems for manufacturing articles, particularly containers and packaging materials, having a highly inorganically filled matrix. Suitable inorganically filled mixtures are prepared by mixing together an organic polymer binder, water, one or more aggregate materials, fibers, and optional admixtures in the correct proportions in order to form an article which has the desired performance criteria. The inorganically filled mixtures are molded to fashion a portion of the mixture into a form stable shape for the desired article. Once the article has obtained form stability, the article is removed from the mold and allowed to harden to gain strength. The articles may have properties substantially similar to articles presently made from traditional materials like paper, paperboard, polystyrene, plastic, or metal. They have especial utility in the mass production of containers, particularly food and beverage containers.

Classifications:

International (IPC 8-9): B01F3/12 B27N3/00 B28B1/00 B28B1/52 B28B11/00 B28B13/02 B28B13/06 B28B23/00 B28B3/00 B28B3/02 B28B3/12 B28B3/20 B28B3/26 B28B7/42 B28C7/02 B29C43/00 B29C43/02 B29C43/06 B29C43/08 B29C43/22 B29C43/24 B29C43/34 B29C43/36 B29C43/38 B29C43/46 B29C44/04 B29C45/00 B29C49/00 B29C49/06 B29C51/00 B29C51/04 B29C51/10 B29C53/06 B29C55/18 B29C67/24 B29C70/50 B29C71/00 B31B17/00 B32B13/02 B32B27/04 B32B27/20 B32B37/14 B32B5/02 B32B5/18 B32B9/00 B65D1/26 B65D13/00 B65D43/16 B65D5/00 B65D65/38 B65D65/46 B65D85/72 C04B14/06 C04B16/02 C04B20/00 C04B22/04 C04B24/00 C04B24/14 C04B24/38 C04B26/00 C04B26/02 C04B26/28 C04B28/00 C04B28/02 C04B38/00 C04B40/00 C04B41/45 C04B41/61 C08J5/18 C08L1/28 C08L3/00 C08L3/02 C08L5/02 C08L5/12 C08L5/14 C08L89/06 C08L97/02 E05D1/02 (Advanced/Invention); B05B11/00 B05C1/08 B05C3/18 B05C5/02 B29C49/04 B29C51/08 B29C53/58 B32B37/12 (Advanced/Non-invention)



International (IPC 1-7): B29C43/34 B29C45/18 B29C49/04 B29C49/06 CPC: B32B37/144 B01F3/1214 B01F2003/125 B05C1/0826 B05C1/0834 B05C3/18 B05C5/0245 B27N3/002 B27N3/007 B28B1/00 B28B1/52 B28B3/00 B28B3/02 B28B3/126 B28B3/2645 B28B7/42 B28B11/00 B28B11/003 B28B11/008 B28B13/021 B28B13/06 B28B23/00 B28B23/0081 B28B23/0087 B28C7/02 B29B2911/1402 B29B2911/14026 B29B2911/14033 B29B2911/1404 B29B2911/14106 B29B2911/14133 B29C33/10 B29C43/00 B29C43/003 B29C43/02 B29C43/06 B29C43/08 B29C43/34 B29C43/36 B29C44/0407 B29C45/0013 B29C49/0005 B29C49/0047 B29C49/04 B29C49/06 B29C49/063 B29C51/002 B29C51/04 B29C51/08 B29C51/082 B29C51/10 B29C53/063 B29C53/58 B29C55/18 B29C67/24 B29C67/242 B29C70/50 B29C71/0009 B29C2043/3222 B29C2043/3433 B29C2043/3623 B29C2043/3689 B29C2043/466 B29C2043/5841 B29C2049/4608 B29C2791/006 B29C2795/007 B29K2003/00 B29K2005/00 B29K2089/00 B29K2105/12 B29K2105/16 B29L2024/00 B29L2031/608 B29L2031/712 B29L2031/7132 B31D1/005 B32B5/02 B32B5/18 B32B9/00 B32B13/02 B32B27/04 B32B27/20 B32B37/12 B65D5/00 B65D11/02 B65D43/162 B65D65/38 B65D65/466 B65D2301/20 B65D2565/385 C04B14/064 C04B16/02 C04B20/002 C04B20/0048 C04B22/04 C04B24/00 C04B24/14 C04B24/38 C04B26/00 C04B26/02 C04B26/026 C04B26/28 C04B26/285 C04B28/00 C04B28/02 C04B38/0006 C04B40/00 C04B40/006 C04B41/45 C04B41/61 C04B2111/00129 C04B2111/0087 C04B2111/00965 C08J5/18 C08J2323/02 C08L1/28 C08L1/286 C08L3/00 C08L3/02 C08L5/02 C08L5/12 C08L5/14 C08L89/06 C08L97/02 E05D1/02 E05Y2900/538 E05Y2900/602 B29C44/3402 B31B50/32 B31B2105/0022 B29C48/03 B29C48/08 B05B11/0037

European: B01F3/12B2 B27N3/00B B27N3/00R B28B1/00 B28B1/52 B28B11/00 B28B11/00E B28B11/00E3 B28B13/02C B28B13/06 B28B23/00 B28B23/00Z B28B3/00 B28B3/02 B28B3/12C B28B3/20 B28B3/26E B28B7/42 B28C7/02 B29C43/00B B29C43/02 B29C43/06 B29C43/08 B29C43/34 B29C43/36 B29C44/04A B29C45/00E B29C49/00B B29C49/00F B29C49/06B2B B29C51/00B B29C51/04 B29C51/10 B29C53/06B B29C55/18 B29C67/22D1 B29C67/24 B29C67/24C B29C70/50 B29C71/00C B31B1/32 B31B17/00 B31D1/00H1 B32B13/02 B32B27/04 B32B27/20 B32B37/14B B32B5/02 B32B5/18 B32B9/00 B65D11/02 B65D43/16B B65D5/00 B65D65/38 B65D65/46C C04B14/06G C04B16/02 C04B20/00D2 C04B20/00F C04B22/02/04 C04B24/00 C04B24/14 C04B24/38 C04B26/00 C04B26/02 C04B26/28 C04B26/28B C04B28/00 C04B28/02 C04B38/00B C04B40/00 C04B40/00D7 C04B41/45 C04B41/61 C08J5/18 C08L1/28 C08L1/28F C08L3/00 C08L3/02 C08L5/02 C08L5/12 C08L5/14 C08L89/06 C08L97/02 E05D1/02 L01F3/12G L05B11/00B5 L05B11/30 L05C1/08P L05C1/08P2 L05C3/18 L05C5/02E L29B911/14B2B L29B911/14B2D L29B911/14B2F L29B911/14B2H L29B911/14B4L L29B911/14B4N L29C33/10 L29C43/00 L29C43/06 L29C43/08 L29C43/32A3 L29C43/34B L29C43/36C2B1 L29C43/36H2 L29C43/46B L29C43/58D1 L29C47/00J5 L29C49/00F L29C49/04 L29C49/06 L29C49/46B1A L29C51/04 L29C51/08 L29C51/08B L29C51/10 L29C53/58 L29C791/00E4 L29C795/00D L29K105/12 L29K105/16 L29K3/00 L29K5/00 L29K89/00 L29L24/00 L29L31/60C L29L31/712 L29L31/7132 L31B201/26A1A L31B217/08A L32B37/12 L65D301/20 L65D565/38Y7 M04B111/00M14 M04B111/00T60 M04B111/00T70 M08J323/02 P05D1/02 P05Y900/538 P05Y900/602

US: 425/388 425/408 425/418 425/532 425/533 425/543

Family:

Publication number	Publication date	Application number	Application date
US5658603 A	19970819	US19950480245	19950607

Priority:

US19920929898 19920811	US19920982383 19921125	US19930095662 19930721
US19930105352 19930810	US19930105741 19930810	US19930152354 19931119
US19940218971 19940325	US19950480245 19950607	

Probable Assignee: EARTHSHELL SPE LLC

Assignee(s): (std): KHASHOGGI E IND

Assignee(s): E KHASHOGGI IND ; E KHASHOGGI IND LLC ; E KHASHOGGI INDUSTRIES ; EARTHSHELL SPE LLC

Inventor(s): (std): ANDERSEN PER JUST ; HODSON SIMON K

5) Family number: 33376242 (US5691014A)

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Title: COATED ARTICLES HAVING AN INORGANICALLY FILLED ORGANIC POLYMER MATRIX

Abstract: Compositions, methods, and systems for manufacturing articles, particularly containers and packaging materials, having a highly inorganically filled matrix. Suitable inorganically filled mixtures are prepared by mixing together an organic polymer binder, water, one or more aggregate materials, fibers, and optional admixtures in the correct proportions in order to form an article which has the desired performance criteria. The inorganically filled mixtures are molded to fashion a portion of the mixture into a form stable shape for the desired article. Once the article has obtained form stability, the article is removed from the mold and allowed to harden to gain strength. The articles may have properties substantially similar to articles presently made from traditional materials like paper, paperboard, polystyrene, plastic, or metal. They have especial utility in the mass production of containers, particularly food and beverage containers.

Classifications:

International (IPC 8-9): B01F3/12 B27N3/00 B28B1/00 B28B1/52 B28B11/00 B28B13/02 B28B13/06 B28B23/00 B28B3/00 B28B3/02 B28B3/12 B28B3/20 B28B3/26 B28B7/42 B28C7/02 B29C43/00

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C04B20/00 C04B22/04 C04B24/00 C04B24/14 C04B24/38 C04B26/00
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C04B41/45 C04B41/61 C08J5/18 C08L1/28 C08L3/00 C08L3/02
C08L5/02 C08L5/12 C08L5/14 C08L89/06 C08L97/02
E05D1/02 (Advanced/Invention);
B05B11/00 B05C1/08 B05C3/18 B05C5/02 B29C49/04 B29C51/08
B29C53/58 B32B37/12 (Advanced/Non-invention)

International (IPC 1-7): B32B23/18 B32B27/20 B65D13/00

CP: Y10S206/819 Y10S428/906 B01F2003/125 B05B11/0037

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US: 206/524.3 206/524.7 206/819 428/182 428/317.9 428/339 428/34.5 428/35.8 428/36.4 428/36.5 428/43 428/532

Family:

Publication number	Publication date	Application number	Application date
US5691014 A	19971125	US19950475367	19950607

Priority:

US19920929898 19920811	US19920982383 19921125	US19930095662 19930721
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US19940218967 19940325	US19950475367 19950607	

Probable Assignee: E KHASHOGGI IND LLC

Assignee(s): (std): KHASHOGGI E IND

Assignee(s): E KHASHOGGI IND ; E KHASHOGGI IND LLC ; E KHASHOGGI INDUSTRIES

Inventor(s): (std): ANDERSEN PER JUST ; HODSON SIMON K

6) Family number: 33376243 (US5702787A)

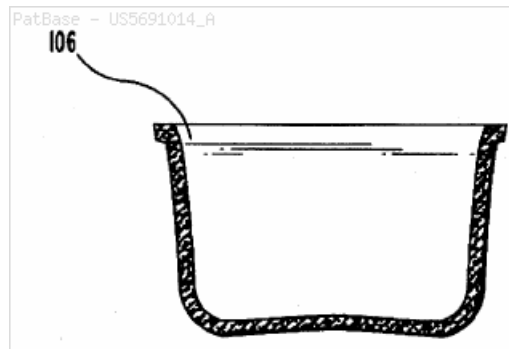
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Title: MOLDED ARTICLES HAVING AN INORGANICALLY FILLED ORAGNIC POLYMER MATRIX

Abstract: Compositions, methods, and systems for manufacturing articles, particularly containers and packaging materials, having a highly inorganically filled matrix. Suitable inorganically filled mixtures are prepared by mixing together an organic polymer binder, water, one or more aggregate materials, fibers, and optional admixtures in the correct proportions in order to form an article which has the desired performance criteria. The inorganically filled mixtures are molded to fashion a portion of the mixture into a form stable shape for the desired article. Once the article has obtained form stability, the article is removed from the mold and allowed to harden to gain strength. The articles may have properties substantially similar to articles presently made from traditional materials like paper, paperboard, polystyrene, plastic, or metal. They have especial utility in the mass production of containers, particularly food and beverage containers.

Classifications:

International (IPC 8-9): B01F3/12 B27N3/00 B28B1/00 B28B1/52
B28B11/00 B28B13/02 B28B13/06 B28B23/00 B28B3/00 B28B3/02
B28B3/12 B28B3/20 B28B3/26 B28B7/42 B28C7/02 B29C43/00
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E05D1/02 (Advanced/Invention);

B05B11/00 B05C1/08 B05C3/18 B05C5/02 B29C49/04 B29C51/08

B29C53/58 B32B37/12 (Advanced/Non-invention)

International (IPC 1-7): B32B5/02 B65D85/84

CPC: Y10S206/819 Y10S428/906 B01F2003/125 B05B11/0037

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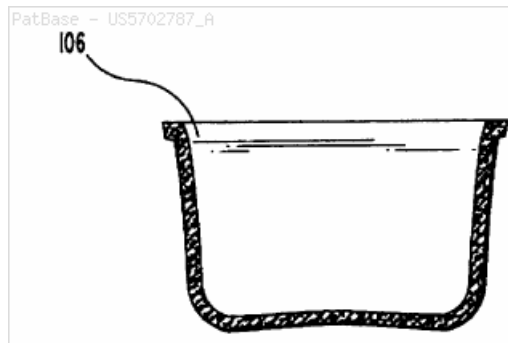
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US: 206/524.3 206/524.7 206/819 428/220 428/304.4 428/317.9 428/36.4 428/36.5 428/36.6 428/532



Family:

Publication number	Publication date	Application number	Application date
US5702787 A	19971230	US19950478281	19950607

Priority:

US19920929898 19920811	US19920982383 19921125	US19930095662 19930721
US19930105741 19930810	US19930105352 19930810	US19930152354 19931119
US19940218967 19940325	US19950478281 19950607	

Probable Assignee: E KHASHOGGI IND LLC

Assignee(s): (std): KHASHOGGI E IND

Assignee(s): E KHASHOGGI IND ; E KHASHOGGI IND LLC ; E KHASHOGGI INDUSTRIES

Inventor(s): (std): ANDERSEN PER JUST ; HODSON SIMON K

7) Family number: 33376246 (US5705239A)

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Title: MOLDED ARTICLES HAVING AN INORGANICALLY FILLED ORGANIC POLYMER MATRIX

Abstract: Compositions, methods, and systems for manufacturing articles, particularly containers and packaging materials, having a highly inorganically filled matrix. Suitable inorganically filled mixtures are prepared by mixing together an organic polymer binder, water, one or more aggregate materials, fibers, and optional admixtures in the correct proportions in order to form an article which has the desired performance criteria. The inorganically filled mixtures are molded to fashion a portion of the mixture into a form stable shape for the desired article. Once the article has obtained form stability, the article is removed from the mold and allowed to harden to gain strength. The articles may have properties substantially similar to articles presently made from traditional materials like paper, paperboard, polystyrene, plastic, or metal. They have especial utility in the mass production of containers, particularly food and beverage containers.

Classifications:

International (IPC 8-9): B01F3/12 B27N3/00 B28B1/00 B28B1/52

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E05D1/02 (Advanced/Invention);
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B29C53/58 B32B37/12 (Advanced/Non-invention)

International (IPC 1-7): B32B5/02 B65D85/84

CPC: Y10S428/906 B01F2003/125 B05B11/0037 B05C1/0826

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European: B01F3/12B2 B27N3/00B B27N3/00R B28B1/00 B28B1/52 B28B11/00 B28B11/00E B28B11/00E3 B28B13/02C
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P05Y900/602

US: 206/524.1 206/524.6 428/152 428/182 428/317.9 428/339 428/34.5 428/36.4 428/36.5 428/43 428/532 428/906

Family:

Publication number	Publication date	Application number	Application date
US5705239 A	19980106	US19950483378	19950607

Priority:

US19920929898 19920811	US19920982383 19921125	US19930095662 19930721
US19930105352 19930810	US19930105741 19930810	US19930152354 19931119
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Probable Assignee: EARTHSHELL SPE LLC

Assignee(s): (std): KHASHOGGI E IND

Assignee(s): E KHASHOGGI IND ; E KHASHOGGI IND LLC ; E KHASHOGGI INDUSTRIES ; EARTHSHELL SPE LLC

Inventor(s): (std): ANDERSEN PER JUST ; HODSON SIMON K

8) Family number: 33376261 (US5830305A)

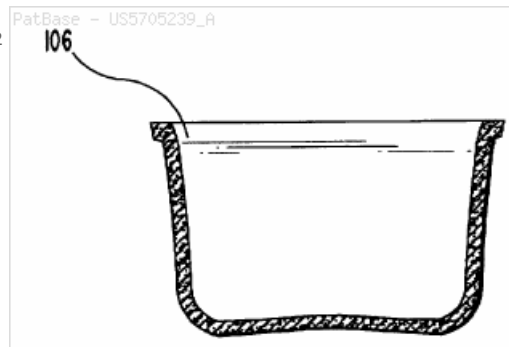
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Title: METHODS OF MOLDING ARTICLES HAVING AN INORGANICALLY FILLED ORGANIC POLYMER MATRIX

Abstract: Compositions, methods, and systems for manufacturing articles, particularly containers and packaging materials, having a highly inorganically filled matrix. Suitable inorganically filled mixtures are prepared by mixing together an organic polymer binder, water, one or more aggregate materials, fibers, and optional admixtures in the correct proportions in order to form an article which has the desired performance criteria. The inorganically filled mixtures are molded to fashion a portion of the mixture into a form stable shape for the desired article. Once the article has obtained form stability, the article is removed from the mold and allowed to harden to gain strength. The articles may have properties substantially similar to articles presently made from traditional materials like paper, paperboard, polystyrene, plastic, or metal. They have especial utility in the mass production of containers, particularly food and beverage containers.

Classifications:

International (IPC 8-9): B01F3/12 B27N3/00 B28B1/00 B28B1/52
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International (IPC 1-7): B29C59/00 B29C65/00 B29C67/20 B29C71/00

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US: 156/242 264/102 264/129 264/132 264/175 264/234 264/239 264/299 264/328.1 264/328.2 264/414 264/42 264/432

264/45.3 264/453 264/489 264/490 264/523 264/537 264/540 264/553

Family:

Publication number	Publication date	Application number	Application date
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Priority:

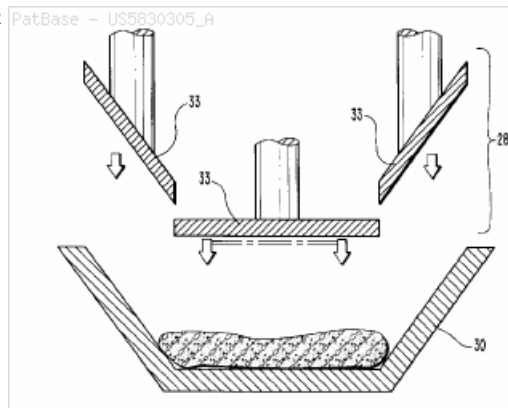
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Probable Assignee: EARTHSHELL SPE LLC

Assignee(s): (std): KHASHOGGI E IND

Assignee(s): E KHASHOGGI IND ; E KHASHOGGI IND LLC ; E KHASHOGGI INDUSTRIES LLC ; EARTHSHELL SPE LLC

Inventor(s): (std): ANDERSEN PER JUST ; HODSON SIMON K



9) Family number: 33376271 (US6090195A)

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Title: COMPOSITIONS USED IN MANUFACTURING ARTICLES HAVING AN INORGANICALLY FILLED ORGANIC POLYMER MATRIX

Abstract: Compositions, methods, and systems for manufacturing articles, particularly containers and packaging materials, having a highly inorganically filled matrix. Suitable inorganically filled mixtures are prepared by mixing together an organic polymer binder, water, one or more aggregate materials, fibers, and optional admixtures in the correct proportions in order to form an article which has the desired performance criteria. The inorganically filled mixtures are molded to fashion a portion of the mixture into a form stable shape for the desired article. Once the article has obtained form stability, such as by heating to remove water by evaporation, the article is removed from the mold and allowed to harden to gain strength. The articles may have properties substantially similar to articles presently made from traditional materials like paper, paperboard, polystyrene, plastic, or metal. They have especial utility in the mass production of containers, particularly food and beverage containers.

Classifications:

International (IPC 8-9): B01F3/12 B27N3/00 B28B1/00 B28B1/52 B28B11/00 B28B13/02 B28B13/06 B28B23/00 B28B3/00 B28B3/02 B28B3/12 B28B3/20 B28B3/26 B28B7/42 B28C7/02 B29C43/00 B29C43/02 B29C43/06 B29C43/08 B29C43/22 B29C43/24 B29C43/34 B29C43/36 B29C43/38 B29C43/46 B29C44/04 B29C45/00 B29C49/00 B29C49/06 B29C51/00 B29C51/04 B29C51/10 B29C53/06 B29C55/18 B29C67/24 B29C70/50 B29C71/00 B31B17/00 B32B13/02 B32B27/04 B32B27/20 B32B37/14 B32B5/02 B32B5/18 B32B9/00 B65D1/26 B65D13/00 B65D43/16 B65D5/00 B65D65/38 B65D65/46 B65D85/72 C04B14/06 C04B16/02 C04B20/00 C04B22/04 C04B24/00 C04B24/14 C04B24/38 C04B26/00 C04B26/02 C04B26/28 C04B28/00 C04B28/02

C04B38/00 C04B40/00 C04B41/45 C04B41/61 C08J5/18 C08L1/28
C08L3/00 C08L3/02 C08L5/02 C08L5/12 C08L5/14 C08L89/06 C08L97/02
E05D1/02 (Advanced/Invention);
B05B11/00 B05C1/08 B05C3/18 B05C5/02 B29C49/04 B29C51/08
B29C53/58 B32B37/12 (Advanced/Non-invention)

International (IPC 1-7): C04B14/38 C08L3/02

CPC: Y10S428/906 B01F2003/125 B05B11/0037 B05C1/0826

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B28B23/00 B28B23/0081 B28B23/0087 B28C7/02 B29B2911/1402
B29B2911/14026 B29B2911/14033 B29B2911/1404 B29B2911/14106
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L29C53/58 L29C791/00E4 L29C795/00D L29K1/00 L29K105/12 L29K105/16 L29K3/00 L29K5/00 L29K89/00 L29L24/00
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M04B111/00P35 M04B111/00T6 M04B111/00T60 M04B111/00T66 M04B111/00T70 M08J323/02 P05D1/02 P05Y900/538
P05Y900/602

US: 106/162.51 106/162.9 106/164.01 106/206.1 106/217.01 106/287.35 106/400

Family:

Publication number	Publication date	Application number	Application date
US6090195 A	20000718	US19980133912	19980813

Priority:

US19920929898	19920811	US19920982383	19921125	US19930095662	19930721
US19930105352	19930810	US19930105741	19930810	US19930152354	19931119
US19940218971	19940325	US19980133912	19980813		

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