

Search query (2): [SP]: capitulo reivindicatorio modificado (examen de forma) 1. un proceso para obtener una arcilla industrial que comprende las siguientes etapas: a) preparar una matriz organica mediante la mezcla y calentamiento de sus componentes, que comprende cera, vaselina, aceite, cera microcristalina, parafina, aceites lubricantes, aceite mineral, hidrocarburos saturados y/o mezclas de los mismos b) incorporar, en una relacion en peso de matriz inorganica a matriz organica entre 1: 1 y 3:2, una matriz inorganica que comprende bentonita y materiales de relleno y/o mezclas de los mismos en la matriz organica obtenida en a), hasta obtener una arcilla industrial en forma de pasta homogenea. 2. el proceso segun la reivindicacion 1, donde la matriz organica de la etapa a) tiene la siguiente composicion: [ftimg=111205203]3. el proceso segun la reivindicacion 1, donde la matriz inorganica de la etapa b) tiene la siguiente composicion: [ftimg=111205204]4. el proceso segun la reivindicacion 1, donde en la etapa a) la matriz organica se mezcla bajo las siguientes condiciones: agitacion entre 10 y 100 rpm y temperatura entre 80 y 150 degrees centigrade 5. una arcilla industrial obtenida segun el proceso de la reivindicacion 1, que comprende la siguiente composicion: compuesto (percent p/p) base seca bentonita 5,0-15,0 caolin 5,0-15,0 talco 5,0-15,0 estearato de calcio 5,0-15,0 carbonato de calcio 5,0-15,0 cera microcristalina 20,0 - 30,0 aceite mineral 5,0 - 10,0 vaselina 0,0 - 5,0 6. la arcilla industrial segun de la reivindicacion 5, que tiene las siguientes caracteristicas: caracteristicas valor modulo de young (kpa) 7500 - 12000 densidad (kg/m3) 1,10-1,40 resistencia maxima a compresion (kpa) 80,0 - 260,0 deformacion en falla (percent) 2,25 - 4,00 chapter vindicating (examination) 1. a process for obtaining a industrial clay comprising the following steps: a) preparing an organic matrix by mixing and heating of its components, comprising wax, petrolatum, paraffin, microcrystalline wax, oil, lubricating oils, mineral oil, saturated hydrocarbons and/or mixtures thereof (b) incorporate, in a weight ratio of between 1: 1 organic matrix and inorganic matrix 3:2, an inorganic matrix comprising bentonite and fillers and/or mixtures thereof in the organic matrix obtained in a), until a homogeneous paste industrial clay. 2. the process according to claim 1, wherein the organic matrix of step a) has the following composition: [ftimg=111205203]3. the process according to claim 1, wherein the inorganic matrix of step b) has the following composition: [ftimg=111205204]4. the process according to claim 1, wherein in step a) the organic matrix is mixed under the following conditions: between 10 and 100 rpm agitation and temperature between 80 and 150 degrees centigrade 5. a industrial clay obtained according to the process of claim 1, comprising the following composition: compound (percent w/w) dry basis bentonite 5,0-15,0 kaolin 5,0-15,0 talc magnesium stearate, calcium stearate, calcium carbonate 5,0-15,0 5,0-15,0 5,0-15,0 10.0 30.0 20.0 - 5.0 mineral oil wax, microcrystalline wax, petrolatum 0.0 - 5.0 - 6. industrial according to claim 5 clay, which has the following characteristics: features young's modulus (kpa) 7500 - 12000 value density (kg/m3) 1.10-1.40 maximum resistance to compression (kpa) 80.0 - 2.25 - 4.00 260.0 strain at failure (percent) **Results: 9**

Search history

Search PN=(wo2017191537) (Results 1)

1:

Search [SP]: capitulo reivindicatorio modificado (examen de forma) 1. un proceso para obtener una arcilla industrial que comprende las siguientes etapas: a) preparar una matriz organica mediante la mezcla y calentamiento de sus componentes, que comprende cera, vaselina, aceite, cera microcristalina, parafina, aceites lubricantes, aceite mineral, hidrocarburos saturados y/o mezclas de los mismos b) incorporar, en una relacion en peso de matriz inorganica a matriz organica entre 1: 1 y 3:2, una matriz inorganica que comprende bentonita y materiales de relleno y/o mezclas de los mismos en la matriz organica obtenida en a), hasta obtener una arcilla industrial en forma de pasta homogenea. 2. el proceso segun la reivindicacion 1, donde la matriz organica de la etapa a) tiene la siguiente composicion: [ftimg=111205203]3. el proceso segun la reivindicacion 1, donde en la etapa a) la matriz organica se mezcla bajo las siguientes condiciones: agitacion entre 10 y 100 rpm y temperatura entre 80 y 150 degrees centigrade 5. una arcilla industrial obtenida segun el proceso de la reivindicacion 1, que comprende la siguiente composicion: compuesto (percent p/p) base seca bentonita 5,0-15,0 caolin 5,0-15,0 talco 5,0-15,0 estearato de calcio 5,0-15,0 carbonato de calcio 5,0-15,0 cera microcristalina 20,0 - 30,0 aceite mineral 5,0 - 10,0 vaselina 0,0 - 5,0 6. la arcilla industrial segun de la reivindicacion 5, que tiene las siguientes caracteristicas: caracteristicas valor modulo de young (kpa) 7500 - 12000 densidad (kg/m3) 1,10-1,40 resistencia maxima a compresion (kpa) 80,0 - 260,0 deformacion en falla (percent) 2,25 - 4,00 chapter vindicating (examination) 1. a process for obtaining a industrial clay comprising the following steps: a) preparing an organic matrix by mixing and heating of its components, comprising wax, petrolatum, paraffin, microcrystalline wax, oil, lubricating oils, mineral oil, saturated hydrocarbons and/or mixtures thereof (b) incorporate, in a weight ratio of between 1: 1 organic matrix and inorganic matrix 3:2, an inorganic matrix comprising bentonite and fillers and/or mixtures thereof in the organic matrix obtained in a), until a homogeneous paste industrial clay. 2. the process according to claim 1, wherein the organic matrix of step a) has the following composition: [ftimg=111205203]3. the process according to claim 1, wherein the inorganic matrix of step b) has the following composition: [ftimg=111205204]4. the process according to claim 1, wherein in step a) the organic matrix is mixed under the following conditions: between 10 and 100 rpm agitation and temperature between 80 and 150 degrees centigrade 5. a industrial clay obtained according to the process of claim 1, comprising the following composition: compound (percent w/w) dry basis bentonite 5,0-15,0 kaolin 5,0-15,0 talc magnesium stearate, calcium stearate, calcium carbonate 5,0-15,0 5,0-15,0 5,0-15,0 10.0 30.0 20.0 - 5.0 mineral oil wax, microcrystalline wax, petrolatum 0.0 - 5.0 - 6. industrial according to claim 5 clay, which has the following characteristics: features young's modulus (kpa) 7500 - 12000 value density (kg/m3) 1.10-1.40 maximum resistance to compression (kpa) 80.0 - 2.25 - 4.00 260.0 strain at failure (percent) (Results 9)

Title: METHOD FOR PRODUCING INDUSTRIAL CLAY

Abstract: The invention relates to a method for producing clays with improved properties, said method comprising incorporating an inorganic matrix into an organic matrix, in pre-determined proportions. The resulting industrial clay is malleable, has high compression and creep strength and is particularly suitable for use in the industrial prototype creation sector.

Classifications:

International (IPC 8-9): B22C1/18 B22C1/20 B22C1/24 B28B7/00 B29C67/24 C04B14/04 C04B14/10 C04B14/28 C04B33/04 C04B33/36 C04B35/14 (Advanced/Invention)

CPC: B22C1/18 B22C1/20 B22C1/24 B28B7/00 B29C67/24 C04B14/04 C04B14/10 C04B14/28 C04B33/04 C04B35/14

PatBase - WO17191537_A1

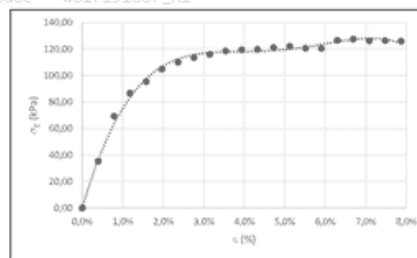


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
CO16119223 A1	20171110	CO20160119223	20160506
WO17191537 A1	20171109	WO20171B52443	20170427

Priority:

CO20160119223 20160506

Probable Assignee: UNIV EAFIT

Assignee(s): (std): UNIV EAFIT

Assignee(s): UNIVERSIDAD EAFIT

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Inventor(s): ALEXANDER JARAMILLO RODRIGUEZ ; ANDRES RESTREPO MONTOYA ; DIEGO ANDRES ACOSTA MAYA ; JOSE LUIS CADAVID CARDENAS ; JULIAN JARAMILLO VALLEJO ; LUIS FERNANDO SIERRA ZULUAGA

Agent(s): CARLOS REINALDO OLARTE GARCIA; RENDON VERA JOSE SANTIAGO

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 JP KE KG KH KM KN KP KR KW 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: PROCESS INCLUDING HEATING AND COOLING FOR PRODUCTION OF AN INJECTION-MOULDED BODY

Abstract: PCT No. PCT/SE95/01434 Sec. 371 Date May 14, 1998 Sec. 102(e) Date May 14, 1998 PCT Filed Nov. 30, 1995 PCT Pub. No. WO96/19308 PCT Pub. Date Jun. 27, 1996A process for production of a moulded ceramic and/or metallic body from a ductile material comprising one or more ceramic and/or metallic components, which material is fed into the pre-heated mould cavity (1) of a moulding tool. The moulded tool includes at least two mould parts (4, 5) of which at least one wholly or partly consists of a microporous material with communicating micropores. At least one mould cavity (1) comprising at least one mould surface (2, 3) exhibiting closed micropores is arranged in the microporous mould part (4, 5) or in a microporous section (6) thereof. The microporous mould part (4, 5) or the microporous section (6) thereof is pre-heated by supply of warm fluid, such as a heated gas. Said part (4, 5) or section (6) is after terminated moulding cooled by supply of cold fluid, such as a condensed gas. the invention includes in a further aspect a moulded body produced according to the process.

Classifications:

International (IPC 8-9): B22F3/02 B22F3/10 B22F3/22 B22F5/00 B28B1/00 B28B1/24 B28B7/34 B28B7/42 B29C33/04 B29C33/38 (Advanced/Invention);

B22F3/02 B22F3/10 B28B1/24 (Advanced/Non-invention);
B22F3/02 B22F3/10 B22F3/22 B22F5/00 B28B1/00 B28B1/24 B28B7/34 B28B7/40 B29C33/04 B29C33/38 (Core/Invention)

International (IPC 1-7): B22F3/02 B22F3/10 B22F3/12 B28B1/00 B28B1/24 B28B7/34 C04B35/64

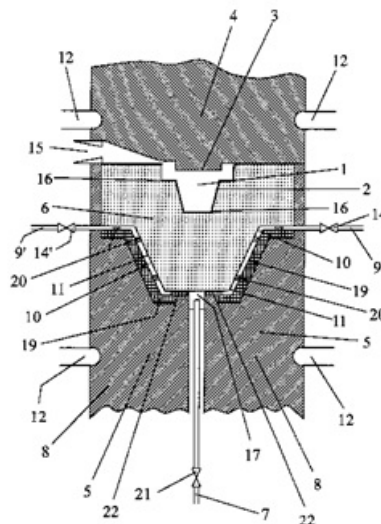
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European: B22F3/00H B22F3/03 B22F3/22 B22F3/22D B22F5/00M B28B1/00 B28B1/24 B28B7/34C B28B7/42 B29C33/04 B29C33/38C C04B35/622 L22F998/00 L22F999/00

US: 264/328.2 264/344 264/345 264/348 264/638 264/645 264/651 264/669 264/670 419/36 419/37 419/38 419/39 419/41 419/66 419/67

PatBase - US5989492_A

U.S. Patent Nov. 23, 1999 Sheet 1 of 3 5,989,492

FIG. 1**Family:**

Publication number	Publication date	Application number	Application date
AT199339 E	20010315	AT19950942330T	19951130
AU199643581 A1	19960710	AU19960043581	19951130
DE69520232 D1	20010405	DE19956020232	19951130
DE69520232 T2	20011011	DE19956020232T	19951130
EP0799102 A1	19971008	EP19950942330	19951130
EP0799102 B1	20010228	EP19950942330	19951130
ES2156221 T3	20010616	ES19950942330T	19951130
JP10509771 T2	19980922	JP19960519710T	19951130
SE502790 C2	19960115	SE19940004418	19941219
SE507180 C2	19980420	SE19950001843	19950518
SE9404418 A	19960115	SE19940004418D	19941219
SE9404418 A0	19941219	SE19940004418	19941219
SE9404418 L	19960115	SE19940004418	19941219
SE9501843 A	19961119	SE19950001843D	19950518
SE9501843 A0	19950518	SE19950001843	19950518
SE9501843 L	19961119	SE19950001843	19950518
US5989492 A	19991123	US19980860834	19980514
WO9619308 A1	19960627	WO1995SE01434	19951130

Priority:

SE19940004418 19941219 SE19950001843 19950518 WO1995SE01434 19951130

Probable Assignee: AGA AB**Assignee(s):** (std): AGA AKTIEBOLAG ; LARSSON OWE ; AGA AB ; AGA AB LINDINGOE**Assignee(s):** AGA LINDINGOE AB ; AGA AKTIEBOLAG S**Inventor(s):** (std): OWE LARSSON ; LARSSON OWE**Designated states:** AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IS IT JP KE KG KP KR KZ LI LK LR LS LT LU LV MC MD MG ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN SZ TD TG TJ TM TT UA UG US UZ VN

Title: ABSORBENT FILLERS FOR THREE-DIMENSIONAL PRINTING

Abstract: A materials system and methods are provided to enable the formation of articles by three-dimensional printing. The materials system includes an absorbent particulate filler that facilitates absorption of infiltrants, thereby allowing the accurate definition of articles with enhanced mechanical and structural characteristics. The methods include the use of phase-change materials to bind a powder, as well as the formation of support structures to improve the control of the shape of the articles.

Classifications:

International (IPC 8-9): B29C67/00 C04B14/00 C04B41/45 C08K3/00 (Advanced/Invention)

International (IPC 1-7): B29C67/00 C04B14/00 C08K3/00

CPC: B33Y10/00 B33Y70/00 B29C64/165

European: B29C67/00L2 B29C67/00R6

US: 106/311 106/401 106/425 106/427 106/429 106/436 106/443 106/453 106/454 106/456 106/459 106/461 106/462 106/464 106/468 106/47 106/470 106/482 106/483 106/486 106/489 106/499 106/501.1 524/3

PatBase - US2005059757_AA

Patent Application Publication Mar. 17, 2005 Sheet 1 of 8 US 2005/009757 A1

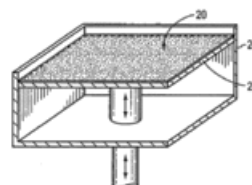


FIG. 1

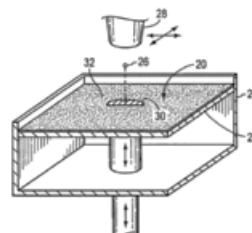


FIG. 2

Family:

Publication number	Publication date	Application number	Application date
US2005059757 AA	20050317	US20040926172	20040825
WO05023524 A2	20050317	WO2004US27549	20040825
WO05023524 A3	20080103	WO2004US27549	20040825

Priority:

US20030499220P 20030829 US20040926172 20040825

Probable Assignee: Z CORP

Assignee(s): (std): BREDT JAMES F ; CLARK SARAH L ; CORP Z ; DICOLOGERO MATTHEW J ; SHAMBLEY WILLIAM B ; TENNENHOUSE LAURA ; WILLIAMS DEREK X

Assignee(s): Z CORP

Inventor(s): (std): BREDT JAMES F ; CLARK SARAH L ; DICOLOGERO MATTHEW J ; SHAMBLEY WILLIAM B ; TENNENHOUSE LAURA ; WILLIAMS DEREK X

Inventor(s): BREDT JAMES ; WILLIAMS DEREK ; SHAMBLEY WILLIAM ; DICOLOGERO MATTHEW ; CLARK SARAH

Agent(s): TESTA HURWITZ AND THIBEAULT 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 KP KR KZ LC 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: MOLDING SAND, AND PRODUCTION METHOD THEREFOR

Abstract: PROBLEM TO BE SOLVED: To provide molding sand having high heat resistance, excellent low expansibility and excellent friability and applicable even to the casting of a large-sized cast steel article having high pouring temperature, further, having excellent reusability to the sand and inexpensively produced in a high yield. SOLUTION: An Al_2O_3 - SiO_2 -based refractory raw material such as fired bauxite is melted. The melt is sprayed with gas such as high pressure air, and is cooled and solidified while being scattered in the shape of fine particles. Thus, a melted sphere having the chemical components of greater than or equal to 70 weight percent Al_2O_3 and less than or equal to 20 weight percent SiO_2 , comprising an alumina crystal phase as the main constituent in crystal constitution and having a particle size distribution of 30 to 3,000 μm is formed.

Classifications:

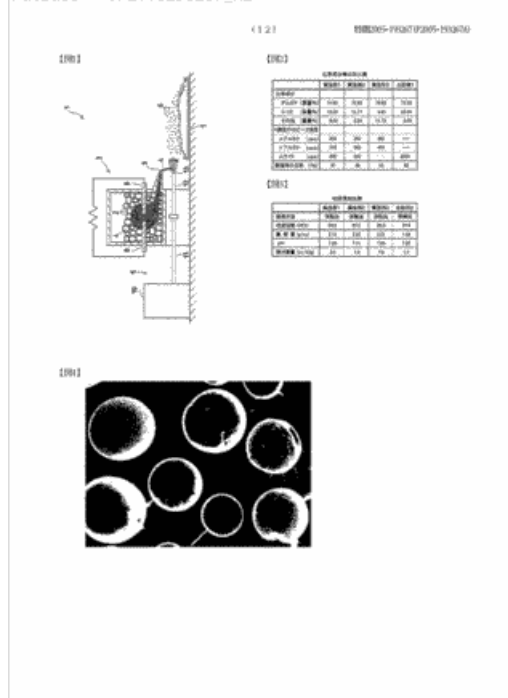
International (IPC 8-9): B22C1/00 B22C1/18

B22C1/22 (Advanced/Invention);

B22C1/00 B22C1/16 (Core/Invention)

International (IPC 1-7): B22C1/00 B22C1/18 B22C1/22

PatBase - JP2005193267_A2



Family:

Publication number	Publication date	Application number	Application date
JP2005193267 A2	20050721	JP20040001072	20040106
JP2010042449 A2	20100225	JP20090231802	20091005
JP4448945 B2	20100414	JP20040001072	20040106
JP5075902 B2	20121121	JP20090231802	20091005

Priority:

JP20040001072 20040106 JP20090231802 20091005

Probable Assignee: KINSEI MATEC CO LTD

Assignee(s): (std): KINSEI MATEC CO LTD

Inventor(s): (std): HATAJI MASAHIKO ; SAKAI TOMOKAZU

Title: PLASTICIZED HETERO-PHASE POLYOLEFIN BLENDS

Abstract: This invention relates to hetero-phase polyolefin compositions comprising: a) 30 to 99.7 wt percent of a polypropylene-based TPO comprising at least 50 wt percent propylene and at least 10 wt percent ethylene, and b) 0.1 to 20 wt percent of one or more non-functionalized plasticizer, and c) 0.2 to 50 wt percent of one or more filler; based upon the weight of the composition, and having: i) an MFR of 5 dg/min or more, and ii) a flexural modulus of 500 MPa or more, and iii) a notched Charpy impact strength at -30 degrees centigrade of 1 kJ/m² or more or a notched Izod impact strength at -18 degrees centigrade of 50 J/m or more. These compositions are especially useful in applications such as automotive parts that demand both high stiffness and high impact toughness, as well as good processibility during fabrication.

Classifications:

International (IPC 8-9): B29C53/04 B32B27/32 C08K3/00 C08K3/26 C08K5/01 C08L23/00 C08L23/08 C08L23/10 C08L23/16

C08L23/22 C08L53/00 C08L91/00 (Advanced/Invention);

C08K3/00 C08L23/00 C08L53/00 C08L91/00 (Core/Invention)

International (IPC 1-7): C08L23/10

CPC: C08J5/18 C08J2323/08 C08J2323/16 C08L23/0815 C08L23/16 C08L23/22 C08L53/00 C08L91/005 C08L2207/02 C08L23/10

European: C08J5/18 C08L23/10 C08L53/00 M08J323/08 M08J323/16 M08L207/02 M08L23/08A1 M08L23/16 M08L23/22

M08L91/00B

US: 264/175 264/175S 428/220 428/220P 524/425 524/474 524/528

Family:

Publication number	Publication date	Application number	Application date
AU2007285017 AA	20080221	AU20070285017	20070705
AU2007285017 BB	20100624	AU20070285017	20070705
AU2007285017 CA	20101216	AU20070285017	20070705
CA2660532 AA	20090210	CA20072660532	20070705
CN101511929 A	20090819	CN200780033057	20070705
CN101511929 B	20120314	CN200780033057	20070705
EP2052028 A1	20090429	EP20070810207	20070705
IN00482DN2009 A	20090612	IN2009DN00482	20090121
JP2010500468 T2	20100107	JP20090524596T	20070705
KR101161914 B1	20120703	KR20097002949	20070705
KR20090029302 A	20090320	KR20097002949	20070705
MX2009001661 A1	20090416	MX20090001661	20070705
US2008045638 AA	20080221	US20060504447	20060815
US2011064931 AA	20110317	US20100722292	20100311
US8003725 BB	20110823	US20060504447	20060815
US8476360 BB	20130702	US20100722292	20100311
WO08020925 A1	20080221	WO2007US15486	20070705

Priority:

US20020402665P 20020812 US20030634351 20030804 US20030640435 20030812
 US20040782228 20040219 US20060504447 20060815 WO2007US15486 20070705
 US20100722292 20100311

Probable Assignee: EXXON MOBIL CORP

Assignee(s): (std): CHAPMAN BRYAN R ; DUNAWAY DAVID B ; EXXON MOBIL CORP ; EXXONMOBIL CHEM PATENTS INC ; HILL JARED M ; LUNDMARK BRUCE R ; VALENTAGE JEFFREY ; TSE MUN F ; HARRINGTON BRUCE A

Assignee(s): EXXONMOBIL CHEMICAL PATENTS INC

Inventor(s): (std): CHAPMAN BRYAN R ; DUNAWAY DAVID B ; HARRINGTON BRUCE A ; HILL JARED M ; JEFFREY VALENTAGE ; LUNDMARK BRUCE R ; TSE MUN F ; VALENTAGE JEFFREY

Inventor(s): JARED M HILL ; BRUCE R LUNDMARK ; BRYAN R CHAPMAN

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; BORDEN LADNER GERVAIS LLP; GERSTBERGER GISELA; SUGIYAMA NAOTO; SHIROGANE HIROSHI; AKAMATSU TOSHIKI; YAMASAKI YUKUZO; EXXONMOBIL CHEMICAL COMPANY; EXXONMOBIL CHEMICAL CO; CATHERINE L; NANCY T; LEANDRO; KERNS MICHAEL S

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

Title: THREE DIMENSIONAL PRINTING MATERIAL SYSTEM AND METHOD

Abstract: The present invention is directed to a 3DP(TM) material system and method, and an article made therefrom. The method of the present invention includes building cross-sectional portions of a three-dimensional article, and assembling the individual cross-sectional areas in a layer-wise fashion to form a final article. The individual cross-sectional areas are built by using an ink-jet printhead to deliver an aqueous fluid to a particulate material that includes plaster.

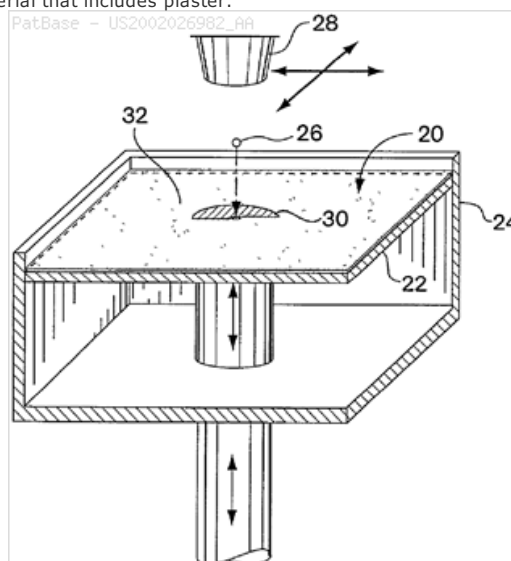
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International (ipc 8-9): B28B1/00 B28B1/16 B28B1/30 B28B7/34 B28B7/46 B29C41/00 B29C67/00 B29C67/24 C04B28/14 C04B28/16 C04B40/00 C08J3/02 C08K3/30 C08K5/09 C08L1/02 C08L3/02 C08L31/04 C08L5/00 (Advanced/Invention); C04B22/08 C04B22/14 C04B24/02 C04B24/38 (Advanced/Non-invention); B28B1/00 B28B1/16 B28B7/34 B28B7/40 B29C41/00 B29C67/00 B29C67/24 C04B28/00 C04B40/00 C08J3/02 C08K3/00 C08K5/00 C08L1/00 C08L3/00 C08L31/00 C08L5/00 (Core/Invention); B28B B29C C04B (Subclass/Invention)

International (ipc 1-7): B22F7/02 B28B1/16 B28B7/34 B29C67/00 B32B27/04 B32B27/12 B32B31/00 C04B28/14 C04B28/16 C04B35/622 C04B40/00 C09D1/00 C09D11/00 C09D4/00 C09J1/00 C09J9/00 **CPC:** Y10T428/24994 Y10T428/249949 C04B26/02 C04B26/06 C04B26/28 C04B28/001 C04B28/26 Y02W30/97 B29C41/003 B29K2105/0097 B29K2105/16 B29K2995/0059 B28B1/00 B28B1/001 B28B7/465 B29C67/243 C04B28/14 C04B2111/00181 B28B7/344 B29K2709/00 B33Y40/00 B33Y10/00 B33Y70/00 B29K2101/12 B29C64/165 B29C64/112 C04B40/00

European: B28B1/00 B28B1/00A B28B7/34C B28B7/46B B29C41/00B B29C67/00R2B B29C67/00R6 B29C67/24C2 C04B26/02 C04B26/06 C04B26/28 C04B28/00B C04B28/14 C04B28/26 C04B40/00 L29C67/00R2B L29K105/00P L29K105/16 L29K709/00 L29K995/00F14 M04B111/00M18

US: 106/206.1 106/31.01 106/31.010S 106/31.6 106/31.600S 106/31.65 106/31.650S 106/31.67 106/31.670S 106/31.69 106/31.690S 106/31.71 106/31.710S 106/31.75 106/31.750S 106/31.82 106/31.820S 106/31.83 106/31.830S 106/31.86 106/31.860S 106/31.9 106/31.900S 106/31.94 106/31.940S 106/31.97 106/31.970S 106/499 156/284 156/305 156/39 264/113 264/123 264/308 264/333 428/297.4 428/300.4 428/703 523/160 524/27 524/27S 524/284 524/35 524/423 524/47 524/48 524/563

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EP20030029489 19990909 EP20050024830 19990909 WO1999US20628 19990909
US20010832309 20010410 US20030650086 20030826

Probable Assignee: 3D SYSTEMS INC

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Inventor(s): (std): RUSSELL DAVID B ; RUSSELL B ; BREDT JAMES F ; BREDT F ; ANDERSON TIMOTHY C ; ANDERSON TIMOTHY ; ANDERSON C

Inventor(s): JAMES F BREDT ; DAVID B RUSSELL ; TIMOTHY C ANDERSON

Agent(s): SMART AND BIGGAR; VON KREISLER SELTING WERNER PARTNERSCHAFT VON PATENTANWAELEN U RECHTSANWAELEN MBB; HOFFMANN EITLE; VON KREISLER SELTING WERNER; MASUI CHUJI; TOMITA HIROYUKI; SHAMOTO ICHIO; KOBAYASHI YASUSHI; SAKURAI CHIKANORI; GOODWIN PROCTER LLP

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

Title: MOLDING SAND FOR CONFORMAL HIGH PRESSURE MODELING AND PREPARATION METHOD THEREOF

Abstract: Molding sand for conformal high pressure modeling is prepared from the following raw materials in parts by weight: 2-3 parts of microcrystalline wax, 4-7 parts of nano pottery clay, 1-2 parts of a polyamide wax micro-powder, 9-12 parts of sodium-based bentonite, 7-9 parts of pulverized coal, 40-50 parts of high-potassium sand, 40-50 parts of potassium sodium stone, 20-26 parts of wollastonite, 130-160 parts of clay, an appropriate amount of water, and 20-30 parts of an auxiliary agent. Through adopting the clay for sintering granulation, the molding sand has good air permeability and good dispersion and can be recycled; through the use of the high-potassium sand, the potassium sodium stone and the nano pottery clay and through melt granulation, the heat resistance, dispersion, air permeability and compressive strength of the molding sand are increased, and bonding of clay particles can be effectively prevented; and the molding sand is high in bonding strength, and suitable for conformal high pressure modeling and casting of spheroidal graphite cast iron rear axles, chassises and the like.

Classifications:

International (IPC 8-9): B22C1/00 B22C1/02 (Advanced/Invention)

CPC: B22C1/00 B22C1/02

Family:

Publication number	Publication date	Application number	Application date
 CN104525835 A	20150422	CN201410711118	20141201

Priority:

CN201410711118 20141201

Probable Assignee: FANCHANG COUNTY HENGXIN AUTO PARTS CO LTD

Assignee(s): (std): FANCHANG COUNTY HENGXIN AUTO PARTS CO LTD

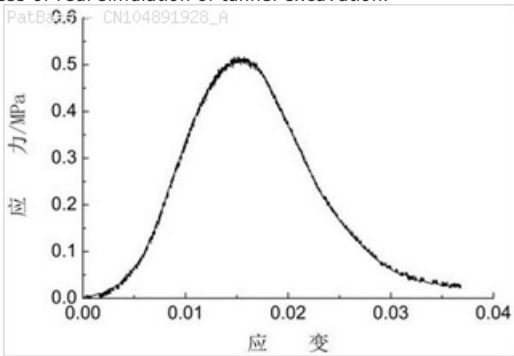
Assignee(s): FANCHANG COUNTY HENGXIN AUTO PARTS CO

Inventor(s): (std): ZHOU DAOHU

Title: SIMILAR MATERIAL FOR FAULT MUD BURST MODEL TEST AND PREPARING METHOD THEREOF

Abstract: The invention relates to a similar material for a fault mud burst model test and a preparing method thereof; the similar material comprises the components by weight: 1 part of a talcum powder, 2-7 parts of sand, 0.8-1.6 parts of gypsum, 0.2-0.6 part of bentonite, 0.01-0.4 part of liquid paraffin, and 0.2-0.7 part of mixing water. The preparing method comprises the steps: according to the proportion, weighing the talcum powder, sand, gypsum, bentonite and liquid paraffin; mixing evenly the talcum powder, sand, gypsum and bentonite in a stirrer; adding the mixing water, and fully stirring; adding the liquid paraffin and stirring; putting the mixed material into a molding die, and carrying out compaction molding; placing the molded material in a ventilated dry place for 24-36 h, and thus obtaining the similar material for the fault mud burst model test. The similar material can be slowly weakened and disintegrated under a water action, the disintegration performance can be changed through changing the composition, and a possibility is provided for fault mud burst in a process of real simulation of tunnel excavation.

Classifications:
International (IPC 8-9): B28B1/04 C04B28/14 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
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■ CN104891928 B	20170801	CN201510252670	20150518

Priority:
CN201510252670 20150518

Probable Assignee: UNIV SHANDONG

Assignee(s): (std): SHANDONG UNIV ; UNIV SHANDONG

Inventor(s): (std): LI SHUCAI ; LIU CONG ; LIU JIANGUO ; TAN YINGHUA ; WANG DEMING ; WANG KAI ; ZHANG QINGSONG ; ZHANG XIAO

Title: Method of making molds for the casting of metals

Abstract: An improvement in a process for making a mold for metal casting by applying a fluid ceramic composition containing binding agent and finely divided refractory substance to a pattern and hardening the same, which improvement comprises employing a ceramic composition which contains special solvents, anti-setting and thixotropic agents, so that this composition after applying gives a uniform coat which does not run down from walls.

Classifications:

International (IPC 8-9): B22C1/16 B22C1/20 B22C9/04 (Advanced/Invention);
B22C1/16 B22C9/04 (Core/Invention)

International (IPC 1-7): B22C1/00 B22C1/02 B22C1/08 B22C1/16 B22C13/08 B22C9/02 B22C9/04 B22C9/12 B28B1/30 B28B7/34

CPC: B22C1/165 B22C1/205 B22C9/04

European: B22C1/16D B22C1/20B B22C9/04

US: 106/38.3 106/38.35 106/38.51 164/16 164/40 501/106

Family:

Publication number	Publication date	Application number	Application date
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Priority:

DE19732349593 19731003 US19740510831 19740930 US19760685556 19760512

Probable Assignee: DYNAMIT NOBEL AG

Assignee(s): (std): DYNAMIT NOBEL AG

Assignee(s): DYNAMIT NOBEL AG 5210 TROISDORF ; DYNAMIT NOBEL AG DT ; DYNAMIT NOBEL AKTIENGESELLSCHAFT ; NOBEL DYNAMIT AG ; DYNAMIT NOBEL AKTIENGESELLSCHAFT TE TROISDORF BOND ; DYNAMIT NOBEL AKTIENGESELLSCHAFT TE TROISDORF BONDSREPUBLIC DUTS LAND ; DYNAMIT NOBEL A G TE TROISDORF REPUBLIEK DUTS LAND

Inventor(s): (std): SCHNIPPERING FRIEDHELM ; DITTRICH WERNER ; SCHNIPPERING F ; DITTRICH W

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