

Search query (2): [SP]: 1. a process for obtaining industrial clay comprising the following steps: a) preparing an organic matrix by mixing and heating components consisting of wax, petroleum jelly, oil, microcrystalline wax, paraffin, lubricating oils, mineral oil, saturated hydrocarbons and/or blends thereofb) incorporating, in a weight ratio of inorganic matrix to organic matrix ranging between 1:1 and 3:2, an inorganic matrix comprising bentonite and filler materials and/or blends thereof onto the organic matrix obtained in a), until an industrial clay is obtained in the form of a homogenous paste.2. the process of claim 1, wherein the organic matrix for step a) has the following composition:component percent (w/w) dry basewax 90.0-100.0petroleum jelly0.0-5.0oil0.0-5.03. the process of claim 1, wherein the inorganic matrix for step b) has the following composition:component percent (w/w) dry basebentonite10.0-40.0filler materials50.0-80.04. the process of claim 1, wherein in step a), the organic matrix is mixed under the following conditions: stirring at 10 to 100 rpm and at a temperature between 80 and 150 degrees centigrade 5. industrial clay obtained according to the process of claim 1, comprising the following composition:compound(percent w/w) dry basebentonite5.0-15.0kaolin5.0-15.0talc5.0-15.0calcium stearate5.0-15.0calcium carbonate5.0-15.0microcrystalline wax20.0-30.0 mineral oil5.0-10.0petroleum jelly0.0-5.0 6. the industrial clay according to claim 5, having the following characteristics:characteristicsvalueyoung modulus (kpa)7500-12000density (kg/m3)1.10-1.40 maximum compression strength (kpa)80.0-260.0strain (percent)2.25-4.00

Results: 11

1) Family number: 15172033 (US5989492A)

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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);

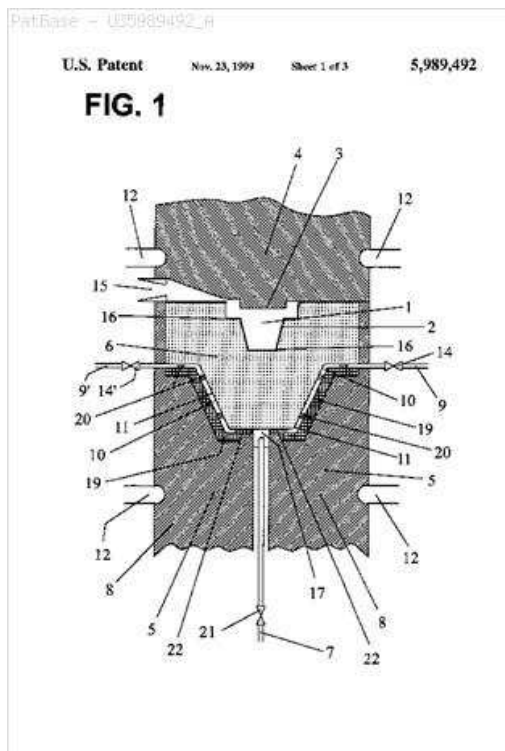
B22F3/02 B22F3/10 B28B1/24 (Advanced/Non-invention); B22F3/02 B22F3/10 B22F3/22 B22F5/00 B28B1/00 B28B1/24 B28B7/34 B28B7/40 B29C33/04 B29C33/38 (Core/Invention)

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

CPC: B22F3/003 B22F3/03 B22F3/1028 B28B1/24 C04B35/622 B28B1/00 B22F3/225 B22F3/22 B22F5/007 B22F2998/00 B22F2999/00 B28B7/344 B28B7/42 B29C33/04 B29C33/3814

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



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 AKTIEBOLAG

Assignee(s): (std): AGA AB ; AGA AB LINDINGOE ; AGA AKTIEBOLAG ; LARSSON OWE

Assignee(s): AGA AKTIEBOLAG S ; AGA LINDINGOE AB

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

2) Family number: 51233105 (US2012142827A)

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Title: PLAY MODELING DOUGH

Abstract: The present invention is directed toward a play composition including a polymeric binder and oil. In an embodiment, the binder is a hydrogenated triblock copolymer including styrene. The oil is a mineral oil. The composition may further include a plasticizer, a release agent, and one or more fillers.

Classifications:

International (IPC 8-9): A63H33/00 C04B33/13 C08K13/02 C08K3/00 C08K5/00 C08K5/01 C08K5/11 C08L3/04 C08L53/00 C08L99/00 G09B19/10 (Advanced/Invention)

CPC: C08K5/0008 C08K5/01 C08K5/11 C08L53/02 C08L91/06 C08L53/00 C08L99/00 C08L3/04 C08K3/013

European: C08K3/00P5 C08K5/00P C08K5/01 C08K5/11

US: 1/1 521/55 524/27 524/27S 524/311 524/311S 524/451 524/451S 524/52 524/52P 524/536 524/536S

Family:

Publication number	Publication date	Application number	Application date
BR112013013277 A2	20160906	BR20131113277	20111201
CA2819828 AA	20130603	CA20112819828	20111201
CN103270545 A	20130828	CN201180058671	20111201
EP2646996 A2	20131009	EP20110845676	20111201
MX2013006024 A1	20131001	MX20130006024	20111201
US2012142827 AA	20120607	US20110309076	20111201
US2014200281 AA	20140717	US20140157801	20140117
US8633269 BB	20140121	US20110309076	20111201
US9193859 BB	20151124	US20140157801	20140117
WO12075269 A2	20120607	WO2011US62867	20111201
WO12075269 A3	20121227	WO2011US62867	20111201

Priority:

US20100418538P 20101201 US20110309076 20111201 WO2011US62867 20111201
US20140157801 20140117

Probable Assignee: MATTEL INC

Assignee(s): (std): CORDOVA ABIMAEI ; MATTEL INC

Inventor(s): (std): CORDOVA ABIMAEI

Inventor(s): ABIMAEI CORDOVA

Agent(s): NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; MOORE BARRY; EDELL SHAPIRO AND FINNAN LLC; LYNCH THOMAS W ET AL

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 QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

3) Family number: 59026203 (CN104525835A)

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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

4) Family number: 6637252 (US4059453A) © PatBase

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
BE820439 A	19750116	BE19740148978	19740927
CH604963 A	19780915	CH19740013175	19740930
DE2349593 A1	19750410	DE19732349593	19731003
DE2349593 B2	19760108	DE19732349593	19731003
DE2349593 C3	19760805	DE19732349593	19731003
DK519474 A	19750616	DK19740005194	19741002
ES430585 A1	19761001	ES19740430585	19741002
FR2246332 A1	19750502	FR19740033238	19741002
FR2246332 B1	19800411	FR19740033238	19741002
GB1489221 A	19771019	GB19740042402	19741003
IT1021678 A	19780220	IT19740053308	19741001
NL181264 B	19870216	NL19740013064	19741003
NL181264 C	19870716	NL19740013064	19741003
NL7413064 A	19750407	NL19740013064	19741003
PL91758 P	19770331	PL19740174535	19741003
SE407346 B	19790326	SE19740012400	19741002
SE407346 C	19790705	SE19740012400	19741002
SE7412400 A	19750404	SE19740012400	19741002
SE7412400 L	19750404	SE19740012400	19741002
US4059453 A	19771122	US19760685556	19760512

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 BONDSREPUBLIEK DUTSLAND ; DYNAMIT NOBEL A G TE TROISDORF REPUBLIEK DUTSLAND

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

Inventor(s): W DITTRICH ; SCHNIPPERING FRIEDHELM 5210 TROISDORF ; F SCHNIPPERING ; DITTRICH WERNER 7889 HERTEN ; FRIEDHELM SCHNIPPERING ; WERNER DITTRICH

5) Family number: 29122386 (US5244726A) © PatBase

Title: ADVANCED GEOPOLYMER COMPOSITES

Abstract: A self-hardened, high temperature-resistant, foamed composite is described. An alkali metal silicate-based matrix devoid of chemical water has dispersed therein inorganic particulates, organic particulates, or a mixture of inorganic and organic particulates, and is produced at ambient temperature by activating the silicates of an aqueous, air-entrained gel containing matrix-forming silicate, particulates, flyash, surfactant, and a pH-lowering and buffering agent.

Classifications:

International (IPC 8-9): C04B16/06 C04B28/00 C04B28/24

C04B28/26 (Advanced/Invention);

C04B16/00 C04B28/00 (Core/Invention)

International (IPC 1-7): C04B12/04 C04B18/08 C04B20/00

C04B28/24 C04B28/26 C04B32/00

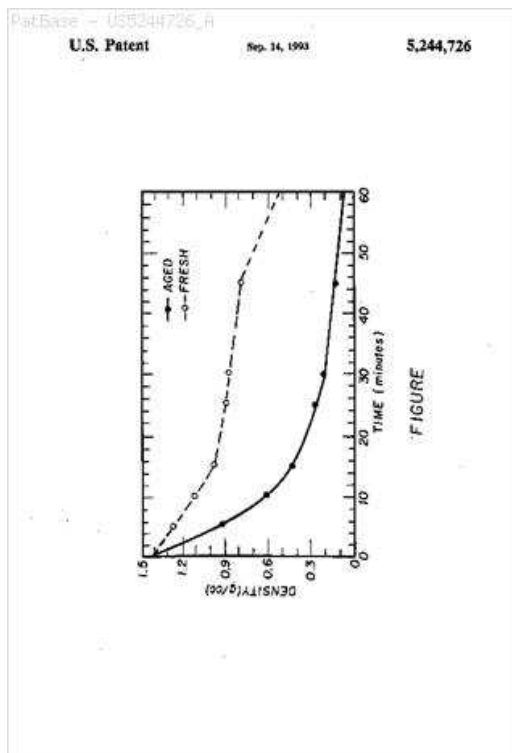
CPC: C04B16/06 C04B28/006 C04B28/26 C04B211/10

Y10T428/249968 Y10T428/249969 Y02W30/92 Y02P40/165

European: C04B16/06 C04B28/00G C04B28/26 M04B11/10

US: 106/601 106/602 106/605 106/610 106/632 428/312.4

428/312.6 428/703



Family:

Publication number	Publication date	Application number	Application date
JP1252563 A2	19891009	JP19890035971	19890215
JP3018341 B2	20000313	JP19890035971	19890215
US5244726 A	19930914	US19920939548	19920831

Priority:

US19880159345 19880223 US19920939548 19920831

Probable Assignee: HERA CORP

Assignee(s): (std): HERA CORP ; HERA CORP ZA

Inventor(s): (std): BAILEY DAVID T ; BIRU II REINII ; DEIBITSUDO TEII BEIRII ; EFU TORUUMAN UIRIAMUZU ; LANEY BILL E ; RONARUDO ERU RAZAFUODOO ; RUTHERFORD RONALD L ; WILLIAMS F TRUMAN

6) Family number: 67443471 (US2019119165A)

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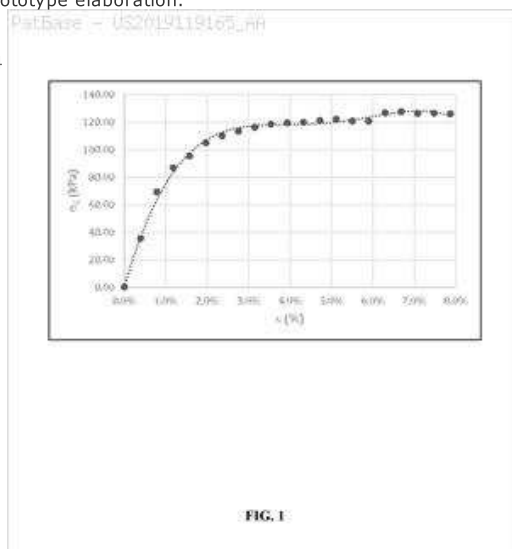
Title: METHOD FOR PRODUCING INDUSTRIAL CLAY

Abstract: The invention describes a process for obtaining clay having improved characteristics that comprises incorporating an inorganic matrix onto an organic matrix at determined proportions. The industrial clay obtained is malleable and highly resistant to compression and strain, of great use in the industry of prototype elaboration.

Classifications:

International (IPC 8-9): B22C1/18 B22C1/20 B22C1/24 B28B7/00 B28C1/00 B29C67/24 C04B14/04 C04B14/10 C04B14/28 C04B33/04 C04B33/13 C04B33/36 C04B35/14 (Advanced/Invention)

CPC: B22C1/20 B22C1/24 B29C67/24 C04B14/04 C04B14/10 C04B14/28 C04B35/14 B28C1/006 C04B33/1305 C04B33/131 C04B2235/48 C04B2235/3445 C04B2235/442 C04B2235/449 C04B2235/349 C04B33/04 B22C1/18



Family:

Publication number	Publication date	Application number	Application date
CO16119223 A1	20171110	CO20160119223	20160506
EP3466655 A1	20190410	EP20170792570	20170427
US2019119165 AA	20190425	US20170098587	20170427
WO17191537 A1	20171109	WO20171B52443	20170427

Priority:

CO20160119223 20160506

CO20160119223U 20160506

WO2017IB52443 20170427

Probable Assignee: UNIV EAFIT**Assignee(s):** (std): UNIV EAFIT**Assignee(s):** UNIVERSIDAD EAFIT**Inventor(s):** (std): RAMILLO RODRIGUEZ ALEXANDER ; CADAVID CARDENAS JOSE LUIS ; JARAMILLO RODRIGUEZ ALEXANDER ; ACOSTA MAYA DIEGO ANDRES ; JARAMILLO VALLEJO JULIAN ; SIERRA ZULUAGA LUIS FERNANDO ; RESTREPO MONTOYA ANDRES**Inventor(s):** JOSE LUIS CADAVID CARDENAS ; ALEXANDER JARAMILLO RODRIGUEZ ; ANDRES RESTREPO MONTOYA ; JULIAN JARAMILLO VALLEJO ; DIEGO ANDRES ACOSTA MAYA ; LUIS FERNANDO SIERRA ZULUAGA**Agent(s):** CARLOS REINALDO OLARTE GARCIA; ABG INTELLECTUAL PROPERTY LAW SL; 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 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**7) Family number: 32182516 (JP2005193267A)**

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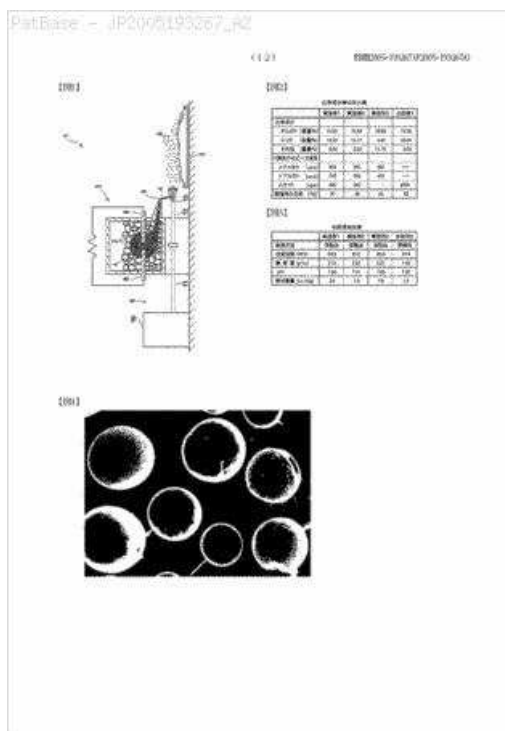
Title: MOLDING SAND, AND PRODUCTION METHOD THEREFOR

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 micro m 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**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**8) Family number: 60304633 (CN104891928A)**

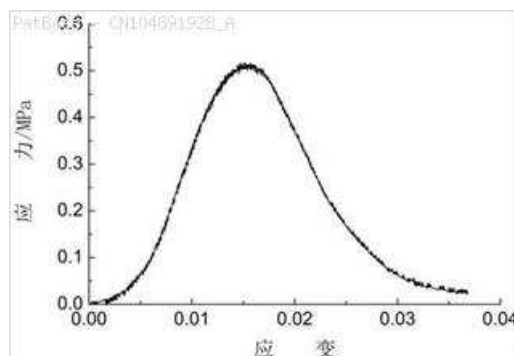
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Title: SIMILAR MATERIAL FOR FAULT MUD BURST MODEL TEST AND PREPARING METHOD THEREOF

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
CN104891928 A	20150909	CN201510252670	20150518
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

9) Family number: 44262670 (US2002026982A)

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Title: THREE DIMENSIONAL PRINTING MATERIAL SYSTEM AND METHOD

Abstract: The present invention is directed to a 3DP(TM) material system ad 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.

Classifications:

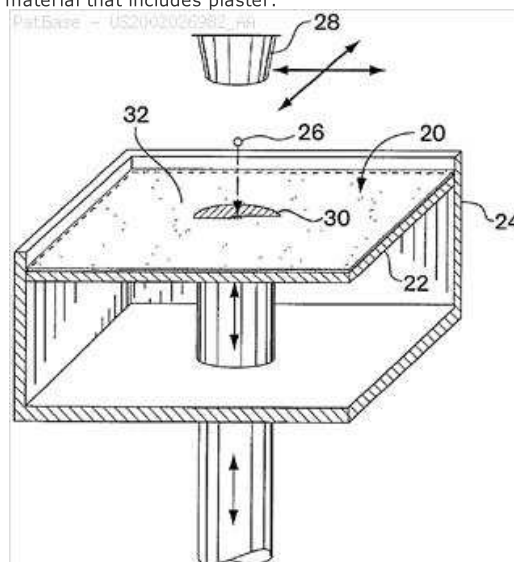
International (IPC 8-9): B28B B28B1/00 B28B1/16 B28B1/30 B28B7/34 B28B7/46 B29C B29C41/00 B29C67/00 B29C67/24 B32B C04B C04B28/14 C04B28/16 C04B40/00 C08J3/02 C08K3/30 C08K5/09 C08L1/02 C08L3/02 C08L31/04 C08L5/00 (Advanced/Invention); C04B22/08 C04B22/14 C04B24/02 C04B24/38 (Advanced/Non-invention); 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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US6416850 BA	20020709	US19990240252	19990129
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Priority:

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US20010832309 20010410	US20030650086 20030826	

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

10) Family number: 31746905 (US2005059757A)

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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:

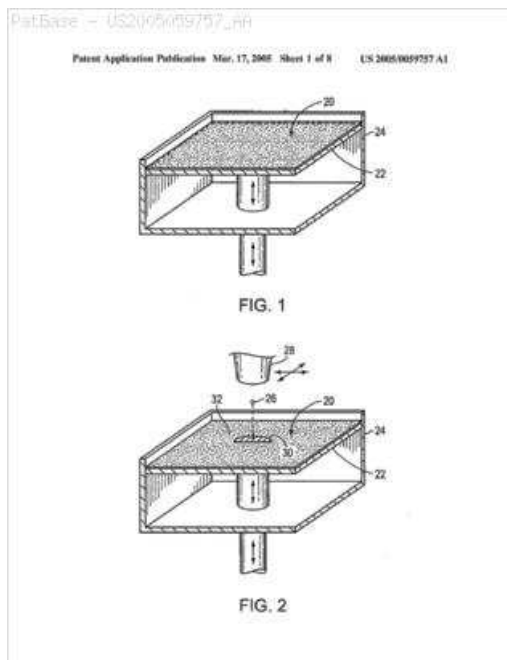
International (IPC 8-9): B29C67/00 C04B14/00 C04B41/45
C08K3/00 (Advanced/Invention)

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
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106/501.1 524/3



Family:

Publication number	Publication date	Application number	Application date
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WO05023524 A3	20080103	WO2004US27549	20040825

Priority:

US20030499220P 20030829 US20040926172 20040825

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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

11) Family number: 41512965 (US2008045638A)

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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
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Priority:

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20030812

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US20060504447
20060815
WO2007US15486
20070705

US20100722292
20100311

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