

Monica Sarmiento

Search history

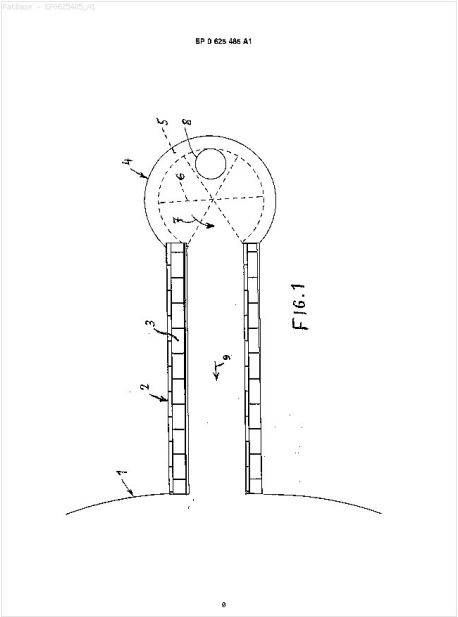
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Title: PROCESS FOR THE PRODUCTION OF A SILICATE MELT AND DEVICE FOR CARRYING OUT THE PROCESS.

Abstract: Silicate melts of pieces of raw material are usually processed further into mineral wool insulating materials. In order to provide a process for the preparation of a silicate melt by means of which all waste materials and secondary raw materials can be recovered or recycled in a simple manner both from an economical and an ecological point of view, it is proposed that hollow glasses filled in advance with fusible (meltable) waste materials be added to the raw material.

Classifications:

International (IPC 8-9): C03B1/02 C03B3/00 C03B3/02 C03C1/00 (Advanced/Invention); C03B1/00 C03B3/00 C03C1/00 (Core/Invention)
International (IPC 1-7): C03B1/02 C03B3/00 C03B3/02 C03C1/00
CPC: Y02P40/52 C03B3/00 C03B1/02 C03B3/02 C03C1/002
European: C03B1/02 C03B3/00 C03B3/02 C03C1/00B



Family:

Publication number	Publication date	Application number	Application date
AT169602 E	19980815	AT19930107506T	19930508
DE59308871 D1	19980917	DE19935008871	19930508
EP0625485 A1	19941123	EP19930107506	19930508
EP0625485 B1	19980812	EP19930107506	19930508

Priority:

EP19930107506 19930508

Probable Assignee: ROCKWOOL MINERALWOLLE

Assignee(s): (std): ROCKWOOL MINERALWOLLE

Assignee(s): DEUTSCHE ROCKWOOL MINERALWOLL GMBH ; DEUTSCHE ROCKWOOL MINERALWOLL GMBH 45966 GLADBECK ; DEUTSCHE ROCKWOOL MINERALWOLL GMBH 45966 GLADBECK DE

Inventor(s): (std): BERNERS KURT DIPL ING ; PAULITSCHKE WERNER DR RER NAT

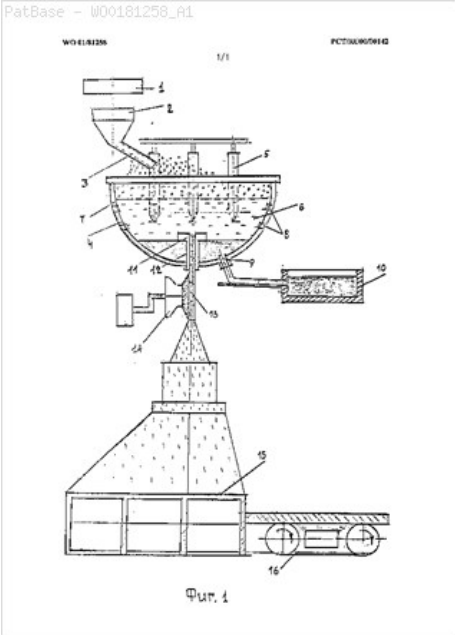
Inventor(s): PAULITSCHKE WERNER DR RER NAT W 4044 KAARST DE ; PAULITSCHKE WERNER DRRERNAT ; BERNERS KURT DIPL ING W 4390 GLADBECK DE

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

Title: METHOD FOR PRODUCING **MINERAL WOOL PRODUCTS** FROM BASALT-BEARING ROCKS AND A **PRODUCTION** LINE FOR CARRYING OUT SAID METHOD

Abstract: The inventive method can be used in the **production** of construction materials used for heat and sound insulation of various buildings, structures, installations, pipe-lines; in the textile industry for producing **mineral wool** materials like the "synthypon" variety; for manufacturing cushioned furniture, medical filters, cigarette filters, etc. Said method for producing **mineral wool products** consists in loading a fine basalt-bearing rock in to a melting furnace, melting, cooling the melt to a temperature of **production** of a fiber, discharging said melt from the furnace, forming and depositing said fiber by means of the separation thereof followed by the **production** of the material. The basalt-bearing rock is pre-heated before it is loaded into the furnace. The melting is carried out in a bottom-electrode arc furnace fitted with carbon electrodes. Before cooling, the melt is heated to the temperature exceeding the fusion temperature and ranging between 50 degrees centigrade and 250 degrees centigrade in addition to being conditioned in a stabilizing chamber of the furnace in order to obtain an average **composition** of a glass mass, having the following mass mixing ratio of the basic components: 3.0 and lt; (Al2O3+SiO2) / (CaO+MgO) and lt;7.0... FeO/Fe2O3 and gt; 0.5; FeO+Fe2O3 = 7.0... 14.5 percent, and an iron melt. Afterwards, the iron melt is evacuated and the cooled glass mass melt is poured through a drawhole, while a stream thereof is inflated with the aid of vapor. The inventive **production** line for producing **mineral wool** articles from basalt-bearing rocks comprises a dosing mechanism, a melting furnace, a device for cooling the melt to the temperature of the **production** of fibers, a drawhole, a device for inflating the melt and a **production** unit. Said line is provided with a heat exchanger connected to the dosing mechanism and to the inside of the furnace. The melting furnace is embodied in the form of a bottom-electrode arc furnace fitted with the carbon electrodes and with the chamber stabilizing the average **composition** of the glass mass and mounted on the lower part of the furnace. Said stabilizing chamber is also used for cooling the melt to the temperature of **production** of the fibers and is fitted, in a bottom part thereof with a drawhole for evacuating the iron melt and the drawhole for melted glass mass is embodied in the form of drawing block with a removable bush. The inflating device is embodied in the form of an injector mounted in such a way that enables said injector to move in a longitudinal and broadside directions. In addition, the stabilizing chamber is provided with heaters and separated from the inside of the melting furnace.

Classifications:
International (IPC 8-9): C03B3/02 C03B37/06 C03B5/027 C03B5/23 C03B5/26 C03C13/00 C03C13/06 (Advanced/Invention); C03B3/00 C03B37/01 C03B5/00 C03C13/00 (Core/Invention)
International (IPC 1-7): C03B37/06
CPC: C03B3/023 C03B5/0275 C03B5/23 C03B5/26 C03B5/262 C03B37/06 C03C13/00 C03C13/06
European: C03B3/02 C03B37/06 C03B5/027D C03B5/23 C03B5/26 C03B5/26D C03C13/00 C03C13/06



Family:

Publication number	Publication date	Application number	Application date
AU200044410 A5	20011107	AU20000044410D	20000424
RU2149841 C1	20000527	RU19990103237	19990218
WO0181258 A1	20011101	WO2000RU00142	20000424
WO0181258 C1	20011129	WO2000RU00142	20000424

Priority:
RU19990103237 19990218 WO2000RU00142 20000424

Probable Assignee: ASLANOVA LJUDMILA GRIGOR EVNA

Assignee(s): (std): KUKUSHKIN VADIM GENRIKHOVICH ; VADIM GENRIKHOVICH KUKUSHKIN ; LJUDMILA GRIGOREVNA ASLANOVA ; ASLANOVA LJUDMILA GRIGOR EVNA ; ASLANOVA LJUDMILA GRIGOREVNA

Assignee(s): ASLANOVA LJUDMILA GRIGOR'EVNA

Inventor(s): (std): ASLANOVA L G ; ASLANOVA LJUDMILA GRIGOREVNA

Inventor(s): LJUDMILA GRIGOREVNA ASLANOVA ; ASLANOVA L.G.

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 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 TZ UA UG US UZ VN ZW

Title: Apparatus for manufacturing mineral wool

Abstract: Source: US6158249A The only methods hitherto available for the production of mineral wool from materials such as basalt either utilize a stationary nozzle (blast drawing method) or external centrifuging whereby unsatisfactory yield and/or a not entirely satisfactory fiber quality, particularly with regard to a high content of unfiberized components, are achieved. By way of the invention, application of a fiberization method is suggested which, in spite of a high fluidity of the molten mineral material such as basalt, arrives at high quality fibers with a low bead proportion at good yield. This is made possible by selection of specific materials and their fiberization in specific conditions. Whereas fiberization of these fluid materials is carried out in external centrifuging at viscosities of a few tens of poises, fiberization by internal centrifuging at viscosities of more than 100 poises is required, according to the: invention, in order to achieve a mineral wool for insulation purposes with a low bead content.

Classifications:

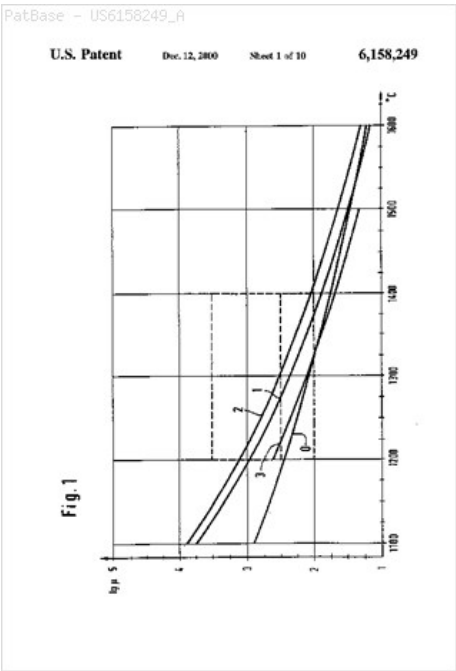
International (IPC 8-9): C03B37/04 C03B37/095 C03C13/06 C22C19/05 C22C32/00 C22C38/00 C22C38/28 (Advanced/Invention); C22C19/05 (Advanced/Non-invention); C03B C03C (Subclass/Invention)

International (IPC 1-7): C03B13/06 C03B32/00 C03B37/04 C03B37/095 C03C13/06 C22C19/05 C22C32/00 C22C38/00 C22C38/28 D02G3/16

CPC: C03B37/045 C03B37/047 C03B37/048 C03B37/095 C03C3/087 C03C3/091 C03C3/097 C03C13/06 C22C32/0026

European: C03B37/04 C03B37/04D C03B37/04E C03B37/04F C03B37/095 C03C13/06 C03C3/087 C03C3/091 C03C3/097 C22C32/00C4

US: 65/522 65/523



Family:

Publication number	Publication date	Application number	Application date
AR247537 A1	19950131	AR19920322880	19920803
AT151059 E	19970415	AT19920916478T	19920803
AU199223874 A1	19930302	AU19920023874	19920803
AU664852 B2	19951207	AU19920023874	19920803
BRPI9205377 A	19940308	BR1992PI05377	19920803
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CN1038926 C	19980701	CN19921010457	19920731
CN1071649 A	19930505	CN19921010457	19920731
CZ290109 B6	20020612	CS19920002381	19920730
CZ9202381 A3	19930317	CS19920002381	19920730
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EP0525816 A1	19930203	EP19920113223	19920803
EP0551476 A1	19930721	EP19920916478	19920803
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FI102675 B	19990129	FI19930001507	19930402
FI931507 A	19930402	FI19930001507	19930402
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HR920253 A1	19940831	HR19920000253	19920731
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HU215361 B	19981228	HU19930000752	19920803
HU67141 A2	19950228	HU19930000752	19920803
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JP3234224 B2	20011204	JP19930503272T	19920803
JP6503799 T2	19940428	JP19930503272T	19920803
KR100187924 B1	19990615	KR19930071002	19930331
NO316921 B1	20040628	NO19930001247	19930331
NO931247 A	19930528	NO19930001247	19930331
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NZ243798 A	19960126	NZ19920243798	19920731
PL170558 B1	19961231	PL19920298865	19920803
PL298865 A1	19940221	PL19920298865	19920803
RU2096356 C1	19971120	SU19930005010	19920803
RU93005010 A	19950810	RU19930005010	19930401
SI9200160 A	19930331	SI19920000160	19920731
SI9200160 B	20011231	SI19920000160	19920731
SK238192 A3	19950913	SK19920002381	19920730
SK284033 B6	20040803	SK19920002381	19920730
TR27648 A	19950614	TR19920000768	19920731

US6158249 A	20001212	US19960712964	19960912
WO9302977 A1	19930218	WO1992EP01754	19920803
ZA9205771 A	19930326	ZA19920005771	19920731

Priority:

FR19910009827 19910802 WO1992EP01754 19920803 US19960712964 19960912
US19950428794 19950424

Probable Assignee: SAINT GOBAIN ISOVER

Assignee(s): (std): IZOVER SEN GOBEN ; SAINT GOBAIN ISOVER ; SAINT GOBAIN ISOVER COURBEVOIE

Assignee(s): ISOVER SAINT GOBAIN FR ; ISOVER SAINT GOBAIN ; IZOVER SEHN-GOBEHN ; HANS FURTAK ; ISOVER SAINT GOBAIN SA ; ISOVER SAINT GOBAIN COURBEVOIE FR ; BATTIGELLI JEAN ; BERNARD JEAN LUC ; BERTHIER GUY ; FURTAK HANS

Inventor(s): (std): BATTIGELLI ; BATTIGELLI JEAN ; BATTIGELLI JEAN A ; BERNARD JEAN ; BERNARD JEAN LUC ; BERNHARD JEAN LUC ; BERTHIER GUY ; BERTHIER JEAN LUC ; FURTAK HANS ; FURTAK HANS DR ; GI BERTÉ ; GUY ; KHANS FURTAK ; LUC BERNARD JEAN ; ZHAN BATTIZHELLI ; ZHAN LYUK BERNAR ; JEAN BATTIGELLI ; GUY BERTHIER

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Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; SIM AND MCBURNEY

Designated states: AT AU BB BE BF BG BJ BR CA CF CG CH CI CM DE DK ES FI FR GA GB GN GR HU IE IT JP KP KR LI LK LU MC MG ML MN MR MW NL NO PL PT RO RU SD SE SN TD TG US

Title: METHOD FOR PREPARING A MINERAL MELT

Abstract: Source: US2006042319A The invention relates to a method for preparing a mineral melt for mineral fibres production, in particular rock wool used for thermal and/or acoustical insulation or for fire protection, stock culture substrates, reinforcement, and filtering fibres. The inventive method consists in breaking and compacting at least industrial residual materials and correction materials which are used for regulating the required composition and viscosity of the mineral melt with a bonding agent in such a way that moulded pieces can be formed and, afterwards transferred to a melting unit. The aim of said invention is to improve a method for the preparation of a mineral melt for producing rock wool in a low-cost manner optimizing properties of produced mineral fibre articles. For this purpose the components of the moulded pieces, in particular the correction materials and/or other components of a mixture are substituted at least partially by granulated combustion products, in particular ashes or slags produced by combusting lignite and/or coat-dust, waste paper or wood chips.

Classifications:
International (IPC 8-9): C03B1/00 C03B1/02 C03B3/02 C03B37/01 C03B37/02 C03B5/00 C03B5/16 C03C1/00 C03C1/02 C03C13/06 C03C3/097 (Advanced/Invention);
C03B1/00 C03B3/00 C03B37/01 C03B37/02 C03B5/00 C03C1/00 C03C13/00 C03C3/076 (Core/Invention)
International (IPC 1-7): C03B1/02 C03B5/00 C03C1/00 C03C1/02 C03C13/06 C03C3/02 C03C3/097
CPC: C03C13/06 C03B1/02 C03C1/002 C03C1/026 C03C3/062 C03C3/064 C03C3/097
European: C03B1/02 C03C1/00B C03C1/02F C03C13/06 C03C3/062 C03C3/064 C03C3/097
US: 65/134.8 65/475 65/482

Family:

Publication number	Publication date	Application number	Application date
AU2003283361 AA	20040607	AU20030283361	20031106
AU2003283361 AH	20040607	AU20030283361	20031106
AU2003301849 AA	20040607	AU20030301849	20031106
CA2504598 AA	20050429	CA20032504598	20031106
CA2504598 C	20150106	CA20032504598	20031106
CA2506769 AA	20050520	CA20032506769	20031106
CA2506769 C	20120228	CA20032506769	20031106
DE10352323 A1	20040715	DE20031052323	20031106
DE10352323 B4	20110915	DE20031052323	20031106
EP1558532 A1	20050803	EP20030810444	20031106
EP1558533 A2	20050803	EP20030775307	20031106
HR20050459 A2	20050831	HR20050000459	20050524
HR20050490 A2	20060228	HR20050000490	20050602
PL212681 B1	20121130	PL20030377167	20031106
PL377167 A1	20060123	PL20030377167	20031106
PL377198 A1	20060123	PL20030377198	20031106
RU2005117358 A	20060120	RU20050117358	20031106
RU2005117362 A	20060120	RU20050117362	20031106
RU2358917 C2	20090620	RU20050117362	20031106
RU2370461 C2	20091020	RU20050117358	20031106
US2006042319 AA	20060302	US20050534009	20050505
US2006042319 AA	20060302	US20030534009	20031106
US2006042319 AA	20060302	US20050534009	20050505
US2006162391 AA	20060727	US20050533689	20051128
US2006162391 AA	20060727	US20030533689	20031106
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Priority:
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DE20031052323 20031106

Probable Assignee: ROCKWOOL INT A S

Assignee(s): (std): HANSEN PETER F B ; HANSEN PETER FARKAS BINDERUP ; LEISMANN ANDREAS ; ROCKWOOL INT ; NYKIEL GUIDO ; ROCKWOOL MINERALWOLLE ; ROKVUL INTERNEHSHNL AS

Assignee(s): DEUTSCHE ROCKWOOL MINERALWOLL GMBH AND CO OHG ; ROCKWOOL INT AS ; ROCKWOOL INTERNATIONAL AS ; ROKVUL INTERNEHSHNL A S ; ROCKWOOL INT A S ; ROCKWOOL INT A SHOVEDGADEN 584DK-2640HEDEHUSENEDK

Inventor(s): (std): KHANSEN PETER FARKAS BINDERUP ; LEISMANN ANDREAS DR ; NIKEL GVIDO ; PETER FARKAS BINDERUP HANSEN ; NIKIL GVIDO ; LJAJSMANN ANDREAS ; LEISMANN ANREAS ; GUIDO NYKIEL ; ANREAS LEISMANN ; ANDREAS LEISMANN ; NYKIEL GUIDO ; LEISMANN ANDREAS ; HANSEN PETER FARKAS BINDERUP ; HANSEN PETER FARKAS ; HANSEN PETER F B

Inventor(s): HANSEN PETER ; LEISMANN ANDREASDE ; HANSEN PETER FB ; HANSEN PETER FARKAS BINDERUPDK ; NIKEL' GVIDO ; NYKIEL GUIDODE ; NIKIL' GVIDO ; PETER FARKAS HANSEN

Agent(s): GOWLING LAFLEUR HENDERSON LLP; NORTON ROSE CANADA SENCRL SRL LLP; OGILVY RENAULT LLP SENCRL SRL; LOCKE LIDDELL AND SAPP LLP; DICKSTEIN SHAPIRO MORIN AND OSHINSKY 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 LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ 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: METHOD FOR PRODUCING A MINERAL MELT AND SHAPED BRICK

Abstract: The invention relates to a method for producing a mineral melt for producing mineral fiber products, particularly rock wool for producing insulating materials for thermal insulation, soundproofing and fireproofing, substrates for cultivating plants, reinforcing fibers, and fibers for filtration purposes, during which a charging material is heated in a melting unit until the melting temperature is reached. Residual substances at least from the production of mineral fiber products and/or correcting substances for adjusting the necessary composition and viscosity of the melt are added to the charging material, and the residual substances and/or correcting substances are comminuted and compacted with a binding agent to form shaped bricks, and the shaped bricks are introduced into the melting unit. In order to improve a method of the aforementioned type for producing a mineral melt for the production of mineral fiber products or of a shaped brick whereby reducing the costs for the raw materials but not degrading the properties of the mineral fiber products to be produced and, in particular, with regard to their insulating properties and biosolubility, the invention provides that dried sludge, which at least partially substitutes for the correcting substances, is added to the shaped bricks.

Classifications:
International (IPC 8-9): C03B1/02 C03C1/00 C03C1/02 C03C13/06 C03C6/08 C04B18/30 (Advanced/Invention); C03B1/00 C03C1/00 C03C13/00 C03C6/00 C04B18/04 (Core/Invention)
International (IPC 1-7): C03C1/00 C03C1/02 C03C13/06 C03C6/08
CPC: C03C1/002 Y02W30/92 Y02W30/94 C03C13/06 C03B1/02 C03C1/026 C04B14/46 C04B18/026 C04B28/02
European: C03B1/02 C03C1/00B C03C1/02F C03C13/06 C04B14/46 C04B18/02F4 C04B28/02

Family:

Publication number	Publication date	Application number	Application date
DE102005038032 A1	20060223	DE200510038032	20050809
WO06015647 A1	20060216	WO2005EP06388	20050615
WO06015846 A1	20060216	WO2005EP08636	20050809

Priority:
DE200410038764 20040809 WO2005EP06388 20050615 WO2005EP08023 20050722
DE200510031972 20050708 DE200510038032 20050809

Probable Assignee: ROCKWOOL MINERALWOLLE
Assignee(s): (std): GONZALES CAPARROS MIGUEL ; GONZALEZ CAPARROS MIGUEL ; LEISMANN ANDREAS ; NYKIEL GUIDO ; ROCKWOOL MINERALWOLLE
Assignee(s): DEUTSCHE ROCKWOOL MINERALWOLL GMBH AND CO OHG
Inventor(s): (std): CAPARROS MIGUEL GONZALEZ ; GONZALES CAPARROS MIGUEL ; GONZALEZ CAPARROS MIGUEL ; LEISMANN ANDREAS ; NYKIEL GUIDO
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 LK LR LS LT LU LV 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: METHOD FOR PRODUCING MINERAL WOOL

Abstract: Source: US2014357469A A process for the manufacture of mineral wool can involve, first, a melting stage which makes it possible to obtain a molten glass. The chemical composition of the molten glass comprises the following constituents, in a content by weight, within the following limits: SiO₂, 39-55 percent; Al₂O₃, 16-27 percent; CaO, 3-35 percent; MgO, 0-5 percent; Na₂O+K₂O, 9-17 percent; Fe₂O₃, 0-15 percent; and B₂O₃, 0-8 percent. The melting stage is carried out by electric melting in a furnace that has a tank made of refractory blocks and at least two electrodes immersed in the molten glass. At least one of the refractory blocks, in contact with the molten glass, is made of a material having at least 60 percent by weight of zirconium oxide and less than 5 percent by weight of chromium oxide. The molten glass is fiberized to obtain the mineral wool.

Classifications:

International (IPC 8-9): C03B37/04 C03B5/027 C03B5/03 C03B5/27 C03B5/43 C03C13/00 C03C13/06 F27D1/00 (Advanced/Invention)

CPC: F27D1/0006 C03B5/03 C03B5/43 C03B5/027 C03B37/04 C03C13/06

US: 373/33 501/36 65/460

Family:

Publication number	Publication date	Application number	Application date
AU2013213481 AA	20130801	AU20130213481	20130125
CA2860608 AA	20140704	CA20132860608	20130125
CL2014001921 A1	20141010	CL20140001921	20140721
CN104066688 A	20140924	CN201380006732	20130125
CO7030954 A2	20140821	CO20140158236	20140722
EA201491429 A1	20141128	EA20140091429	20130125
EP2807124 A1	20141203	EP20130704201	20130125
FR2986227 A1	20130802	FR20120050796	20120127
FR2986227 B1	20140110	FR20120050796	20120127
JP2015506901 T2	20150305	JP20140553788T	20130125
KR20140127229 A	20141103	KR20147020700	20130125
US2014357469 AA	20141204	US20130374655	20130125
WO13110897 A1	20130801	WO2013FR50152	20130125

Priority:

FR20120050796 20120127 WO2013FR50152 20130125

Probable Assignee: SAINT GOBAIN ISOVER

Assignee(s): (std): SAINT GOBAIN ISOVER

Assignee(s): SAINT GOBAIN ISOVER18 AVENUE D'ALSACEF-92400COURBEVOIEFR ; BEAUFILS SEBASTIEN ; CLATOT RICHARD

Inventor(s): (std): CLATOT RICHARD ; BEAUFILS SEBASTIAN ; BEAUFILS SEBASTIEN

Inventor(s): BEAUFILS SEBASTIENFR ; CLATOT RICHARDFR ; RICHARD CLATOT ; SEBASTIEN BEAUFILS

Agent(s): GRIFFITH HACK; GOUDREAU GAGE DUBUC; MARGARITA CASTELLANOS ABONDANO; TEYSSSEDRE LAURENT; SAINT GOBAIN RECHERCHE

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

Title: Process for the production of mineral wool products

Abstract: Source: US4287142A A process for the production of mineral wool products comprising admixing fine starting materials, a hydraulic binder, and an inorganic material containing at least 75 percent SiO2 and having an average particle size of less than 100 mu m to form a mouldable mixture, moulding the mixture to form briquettes, heating the briquettes to a temperature sufficiently high to form a melt and converting the melt thus formed into a mineral wool product.

Classifications:

International (IPC 8-9): C03B1/02 C03C1/00 C03C1/02 C03C13/06 (Advanced/Invention); C03B1/00 C03C1/00 C03C13/00 (Core/Invention)
International (IPC 1-7): B28C C03B1/00 C03B37/00 C03B37/075 C03C1/02 C03C13/00 C04B31/02 C04B31/10 C04B35/14
CPC: C03B1/02 C03C1/002 C03C1/02 C03C1/026 C03C13/06
European: C03B1/02 C03C1/00B C03C1/02 C03C1/02F C03C13/06
US: 106/705 106/709 106/711 264/211.11 264/333 264/37 264/37.28

Family:

Publication number	Publication date	Application number	Application date
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BE856367 A1	19771031	BE19770178994	19770701
CH621319 A	19810130	CH19770008103	19770701
DE2729696 A1	19780105	DE19772729696	19770701
DK302076 A	19780103	DK19760003020	19760702
FI772044 A	19780103	FI19770002044	19770630
FR2356605 A1	19780127	FR19770020281	19770701
GB1529288 A	19781018	GB19770027469	19770630
NL7707203 A	19780104	NL19770007203	19770629
NO772349 A	19780103	NO19770002349	19770701
SE418737 B	19810622	SE19770007653	19770701
SE7707653 A	19780103	SE19770007653D	19770701
US4287142 A	19810901	US19780952732	19781019

Priority:

DK19670003020 19670702 DK19760003020 19760702 US19770811829 19770630

Probable Assignee: ROCKWOOL INT

Assignee(s): {std}: ROCKWOOL INT

Assignee(s): ROCKWOOL INT AS ; ROCKWOOL INTERNATIONAL A S ; ROCKWOOL INTERNATIONAL A S TE HEDEHUSENE DENEMARKE ; ROCKWOOL INTERNATIONAL A S TE HEDEHUSENE DENEMARKEN ; ROCKWOOL INTERNATIONAL AS

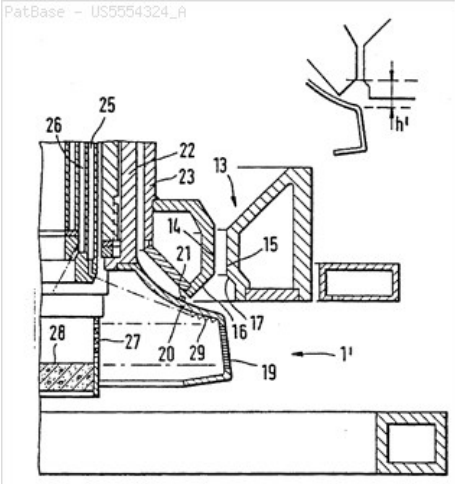
Inventor(s): {std}: HOLBEK KJELD ; HOLBEK K

Inventor(s): KJELD HOLBEK ; K HOLBEK

Title: Method for producing mineral wool

Abstract: Source: US5554324A PCT No. PCT/EP92/01914 Sec. 371 Date Jul. 20, 1994 Sec. 102(e) Date Jul. 20, 1995 PCT Filed Aug. 20, 1992 PCT Pub. No. WO94/04468 PCT Pub. Date Mar. 3, 1994A method for producing mineral wool of a material which is highly fluid at an elevated liquidus temperature in particular above 1,200 DEG C., with a viscosity of less than 5,000 poises at liquidus temperature, is proposed wherein the molten mineral material, after having destroyed all nuclei of crystallization, is supplied into a spinner (1') the peripheral wall (19) of which comprises a multiplicity of orifices with small diameters wherethrough said molten material is centrifuged to form filaments which, in a given case, are subjected to a supplementary attenuating effect of a preferably hot gas flow flowing along said peripheral wall (19) of said spinner (1') and generated by a concentric annular external burner (13). If fiberization of such a material is effected in the traditional way, a great proportion of unfiberized particles in the product will result. To avoid this, the spinner temperature in ongoing, continuous operation is maintained at a balanced value which is lower than or equal to the temperature at which the viscosity of the molten mineral material is 100 poises, and higher than the crystallization temperature in undercooled state of said material to be fiberized.

Classifications:
International (IPC 8-9): C03B37/00 C03B37/04 C03B37/095 C03C13/06 C22C32/00 D01D5/08 D01F9/08 (Advanced/Invention); D01D5/08 D01F9/08 (Advanced/Non-invention); C03C25/00 (Core/Invention)
International (IPC 1-7): B29B9/00 C03B C03B37/00 C03B37/02 C03B37/04 C03B37/05 C03B37/08 C03B37/095 C03C13/06 C03C25/00 C22C32/00 D01D5/08 D01F9/08
CPC: C03B37/045 C03B37/047 C03B37/048 C03C13/06 C22C32/0026
European: C03B37/04 C03B37/04D C03B37/04E C03B37/04F C03B37/095 C03C13/06 C22C32/00C4
US: 264/8 425/8 65/384 65/460



Family:

Publication number	Publication date	Application number	Application date
AU199224331 A1	19940315	AU19920024331	19920820
AU668878 B2	19960523	AU19920024331	19920820
BRPI9206653 A	19951024	BR1992PI06653	19920820
CA2121572 AA	19940418	CA19922121572	19920820
CN1087611 A	19940608	CN19931016531	19930820
EP0583791 A1	19940223	EP19930113360	19930820
FI941816 A	19940420	FI19940001816	19940420
FI941816 A0	19940420	FI19940001816	19940420
HR931148 A2	19960630	HR19930001148	19930820
IS4061 A	19940221	IS19930004061	19930812
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NO941403 A0	19940418	NO19940001403	19940418
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RU94027295 A	19960627	RU19940027295	19940419
RU94027295 A1	19960627	RU19940027295	19940419
SI9300437 A	19940331	SI19930000437	19930820
SK45594 A3	19940907	SK19940000455	19920820
US5554324 A	19960910	US19940215650	19940318
WO9404468 A1	19940303	WO1992EP01914	19920820

Priority:
CA19922121572 19920820 WO1992EP01914 19920820 IS19930004061 19930812
RU19940027295 19940419

Probable Assignee: ISOVER SAINT GOBIAN

Assignee(s): (std): BATTIGELLI JEAN ; BERNARD JEAN LUC ; BERTHIER GUY ; FURTAK HANS ; SAINT GOBAIN ISOVER ; VIGNESOULT SERGE ; ISOVER SEHN GOBEHN

Assignee(s): ISOVER SAINT GOBAIN ; ISOVER SAINT GOBIAN

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Inventor(s): HANS FURTAK ; JEAN LUC BERNARD ; DR HANS FURTAK

Agent(s): GRIFFITH HACK; SIM AND MCBURNEY

Designated states: AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CS DE DK ES FI FR GA GB GN GR HU IE IT JP KP KR LI LK LU MC MG ML MN MR MW NL NO PL PT RO RU SD SE SN TD TG UA US

Title: Phenolic resin for glue sizing **composition**, preparation method and glue sizing **composition** containing same

Abstract: Source: US6342271B The invention relates to a resin **composition** based on a urea-modified phenol-formaldehyde resole which has a formaldehyde/phenol molar ratio of 2 to 5, exhibiting a free formaldehyde content lower than or equal to 3 percent (by weight relative to the total weight of the **composition**), a free phenol content lower than or equal to 0.5 percent and a dilutability measured at 20 degrees centigrade, of at least 1000 percent and to a process for the preparation of this **composition**. This **composition** is characterized in that it contains an overcondensed resole obtained by the condensation of phenol, of formaldehyde, and optionally of urea in basic medium, until the **product** has a water dilutability at pH 9 that is lower than or equal to 2000 percent, or the **product** of neutralization of such as resole. The modification of an overcondensed phenolic resole by neutralization with boric acid according to the invention permits the dilutability of the resole to be increased. An application is for sizing **composition** s for **products** based on **mineral wool** with a reduction in atmospheric pollution upon use.

Classifications:

International (IPC 8-9): C03C25/10 C03C25/26 C03C25/34 C08G14/08 C08G8/00 C08G8/10 C08G8/28 C08L61/06 C08L61/14 C08L61/24 C08L61/34 C09J101/14 D06M15/41 (Advanced/Invention); C03C25/10 C08G14/08 C08G8/00 (Advanced/Non-invention); C08G14/00 (Core/Invention)

International (IPC 1-7): B05D3/02 C03C25/02 C03C25/10 C03C25/34 C08G14/04 C08G14/08 C08G8/00 C08J5/24 C08L61/14 C08L61/34 C09J161/14 C09J5/06 D06M15/41

CPC: C03C25/34 C03C25/26 C08G14/08

European: C03C25/26 C03C25/34 C08G14/08

US: 427/385.5 427/389.7 427/389.8 427/427.4 528/230 528/240 528/242

PatBase - RU2225416_C2

Таблица 1				
	Пример 1	Пример 2	Пример 3	Средн. пример 1
Вязко. свободный	0,22	0,04	0,14	0,15
Вязко. общий	0,56	0,23	0,45	0,42
Вязко. вязкость	0,71	0,97	0,76	0,81
Температура, мм/мин	0,88	1,52	1,77	1,9
Вс. вязкость, мм/мин	2,34	2,45	2,65	2,56

Таблица 2			
Разбавляемость дисперсионного состава при 20°C			
Время выдержки при 12°C (мин)	Пример 1	Пример 2	Средн. пример 3, нейтрализация серной кислотой
0	2000%	>2000%	2000%
4	2000%	2000%	2000%
8	1700%	1800%	1800%
12	1400%	1700%	-
16	100%	1500%	-

Family:

Publication number	Publication date	Application number	Application date
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AT358145 E	20070415	AT19980937593T	19980709
AU199886335 A1	19990210	AU19980086335	19980709
AU750098 B2	20020711	AU19980086335	19980709
BRPI9810564 A	20000815	BR1998PI10564	19980709
CA2296730 AA	20000112	CA19982296730	19980709
CA2296730 C	20100323	CA19982296730	19980709
CN1182171 C	20041229	CN19988009136	19980709
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DE69837435 D1	20070510	DE19986037435	19980709
DE69837435 T2	20080124	DE19986037435T	19980709
DK0996653 T3	20070730	DK19980937593T	19980709
EP0996653 A1	20000503	EP19980937593	19980709
EP0996653 B1	20070328	EP19980937593	19980709
EP1795547 A1	20070613	EP20060126876	19980709
ES2285781 T3	20071116	ES19980937593T	19980709
FR2766201 A1	19990122	FR19970008936	19970715
HU0002769 AB	20001228	HU20000002769	19980709
HU0002769 AC	20110328	HU20000002769	19980709
IN01180CA1998 A	20051216	IN1998CA01180	19980708
IN201722 B	00000000	IN1998CA01180	19980708
JP2001510215 T2	20010731	JP20000503127T	19980709
JP2009149904 A2	20090709	JP20090037245	20090219
JP4298159 B2	20090715	JP20000503127T	19980709
KR100566073 B1	20060330	KR20007000349	20000112
KR20010021786 A	20010315	KR20007000349	20000112
NO200000084 A	20000107	NO20000000084	20000107
NO200000084 A0	20000107	NO20000000084	20000107
NO332943 B1	20130204	NO20000000084	20000107
PL203691 B1	20091130	PL19980339216	19980709
PL206776 B1	20100930	PL19980385756	19980709
PL339216 A1	20001204	PL19980339216	19980709
PT996653 T	20070710	PT19980937593T	19980709
RU2000103440 A	20011127	RU20000103440	19980709
RU2225416 C2	20040310	RU20000103440	19980709
SI0996653 T1	20070831	SI19980030886T	19980709
TR2000000095 T2	20000921	TR20000000095T	19980709
US6342271 BA	20020129	US20000462459	20000427
WO9903906 A1	19990128	WO1998FR01484	19980709
ZA9806024 A	19990303	ZA19980006024	19980708

Priority:

FR19970008936 19970715 EP19980937593 19980709 KR20007000349 20000112
WO1998FR01484 19980709 JP20000503127 19980709

Probable Assignee: ISOVER SAINT GOBAIN

Assignee(s): (std): ESPIARD PHILIPPE ; ISOVER GAINST GOBAIN ; SAINT GOBAIN ISOVER ; LERICQUE BERNARD ; TETART SERGE ; LABBE CLAIRE

Assignee(s): ISOVER INT GOBAIN LES MIROIRS SA ; ISOVER SAINT GOBAIN

Inventor(s): (std): EHSPAR FILIPP ; ESPIARD PHILIPPE ; JOACHIM JACKY ; LABBE C ; LABBE CLAIRE ; LERICQUE B ; LERICQUE BERNARD ; LERIK BERNAR ; LERIQUE BERNARD ; LJABB KLER ; TETAR SERZH ; TETARE SERGE ; TETART S ; TETART SERGE ; TETART SERGE M

Inventor(s): B LERICQUE ; BERNARD LERICQUE ; C LABBE ; CLAIRE LABBE ; PHILIPPE ESPIARD ; S TETART ; SERGE TETART

Agent(s): GRIFFITH HACK; GOUDREAU GAGE DUBUC

Designated states: AT AU BE BR CA CH CN CY CZ DE DK ES FI FR GB GR HU IE IT JP KR LI LU MC NL NO PL PT RU SE SI TR US

Title: Method for manufacturing a **mineral wool product**

Abstract: Source: US5919528A PCT No. PCT/EP96/00718 Sec. 371 Date Nov. 14, 1997 Sec. 102(e) Date Nov. 14, 1997 PCT Filed Feb. 20, 1996 PCT Pub. No. WO96/26164 PCT Pub. Date Aug. 29, 1996The invention relates to a method for manufacturing a **product** on a basis of **mineral wool**, including the steps of: i) preparing a phenol-formaldehyde resin, ammonia and a sugar preparation containing aqueous preparation; ii) applying the preparation to the **mineral wool**; and iii) curing the **mineral wool** with forming of the **product**, and to a kit for preparing the **mineral wool product**, including a container holding the resin preparation and a container holding the sugar preparation.

Classifications:

International (IPC 8-9): C03C25/10 C03C25/32 C03C25/34 C04B14/38 D06M11/59 D06M13/02 D06M13/148 D06M15/03 D06M15/41 (Advanced/Invention); C03C25/10 (Advanced/Non-invention); C03C25/00 C03C25/10 C03C25/24 C04B14/38 D06M11/00 D06M13/00 D06M15/37 (Core/Invention)

International (IPC 1-7): B05D1/18 B05D3/02 C03C25/02 C03C25/10 C03C25/48 C04B14/38 D06M11/59 D06M13/148 D06M15/41

CPC: C03C25/321 C03C25/34

European: C03C25/32B C03C25/34

US: 206/524.1 427/389.8 427/443.2 524/546 524/594 524/596 65/451

Family:

Publication number	Publication date	Application number	Application date
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AU716075 B2	20000217	AU19960049404	19960220
BG101844 A	19980430	BG19970101844	19970821
BG62251 B1	19990630	BG19970101844	19970821
CA2213497 AA	19970820	CA19962213497	19960220
CA2213497 C	20061003	CA19962213497	19960220
CN1053879 C	20000628	CN19961092702	19960220
CN1179140 A	19980415	CN19961092702	19960220
CZ288416 B6	20010613	CZ19970002652	19960220
CZ9702652 A3	19980114	CZ19970002652	19960220
DE69617212 D1	20020103	DE19966017212	19960220
DE69617212 T2	20020627	DE19966017212T	19960220
DE69617212 T3	20090723	DE19966017212T	19960220
DK0810981 T3	20020521	DK19960905773T	19960220
DK0810981 T4	20090119	DK19960905773T	19960220
EA000379 B1	19990624	EA19970000191	19960220
EE9700180 A	19980216	EE19970000180	19960220
EP0810981 A1	19971210	EP19960905773	19960220
EP0810981 B1	20011121	EP19960905773	19960220
EP0810981 B2	20081119	EP19960905773	19960220
ES2163616 T3	20020201	ES19960905773T	19960220
ES2163616 T5	20090416	ES19960905773T	19960220
FI121011 B	20100615	FI19970003410	19970820
FI973410 A	19970820	FI19970003410	19970820
FI973410 A0	19970820	FI19970003410	19970820
HU229857 B1	20141028	HU19980001245	19960220
HU9801245 AB	19980828	HU19980001245	19960220
HU9801245 AC	19981228	HU19980001245	19960220
JP11500497 T2	19990112	JP19960525393T	19960220
JP3784067 B2	20060607	JP19960525393T	19960220
NO321141 B1	20060327	NO19970003811	19970819
NO973811 A	19971020	NO19970003811	19970819
NO973811 A0	19970819	NO19970003811	19970819
PL185278 B1	20030430	PL19960321897	19960220
PL321897 A1	19971222	PL19960321897	19960220
SI0810981 T1	20020430	SI19960030432T	19960220
SI0810981 T2	20090430	SI19960030432T	19960220
SK112497 A3	19980204	SK19970001124	19960220
SK282871 B6	20030109	SK19970001124	19960220
US5919528 A	19990706	US19970894508	19971114
WO9626164 A1	19960829	WO1996EP00718	19960220

Priority:
EP19950200424 19950221 EP19960905773 19960220 WO1996EP00718 19960220

Probable Assignee: ROCKWOOL BV

Assignee(s): (std): CUYPERS JEAN MARIE WILHELMUS ; HUIJS MATHIJS JOHANNUS ANTHONI ; HUSEMOEN THOR ; ROCKWOOL BV ; ROCKWOOL LAPINUS BV

Assignee(s): ROCKWOOL LAPINUS INDUSTRIEWEG BV ; ROCKWOOL LAPINUS B V MELICK HERKENBOSCH ; ROCKWOOL LAPINUS B V ; HUIJS MATHIJS JOHANNUS ANTHONIUS MARIA

Inventor(s): (std): CUYPERS J M W ; CUYPERS JEAN ; CUYPERS JEAN M ; CUYPERS JEAN M W ; CUYPERS JEAN MARIE WILHELMUS ; CUYPERS MARIE ; HUIJS JOHANNUS ; HUIJS M J A M ; HUIJS MATHIJS ; HUIJS MATHIJS J ; HUIJS MATHIJS J A M ; HUIJS MATHIJS JOHANNUS ANTHONI ; HUIJS MATHIJS JOHANNUS ANTHONIUS MARIA ; HUSEMOEN T ; HUSEMOEN THOR ; HUYS MATHIJS JOHANNUS ANTHONI ; HUYS MATHIJS J ; HUYS MATHIJS J A M ; MATHIJS JOHANNUS ANTHONIUS MAR ; JEAN MARIE WILHELMUS CUYPERS ; THOR HUSEMOEN ; CUYPERS JEAN MARIE WILHEMUS ; HUIJS MATHIJS JOHANNUS ANTHONIUS

Inventor(s): MATHIJS JOHANNUS ANTHONIUS MARIA HUIJS ; HUIJS MATHIJS JOHANNUS ANTHONIUS M ; HUYS MATHIJS JOHANNUS ANTHONIUS MARIA ; J M W CUYPERS ; M J A M HUIJS ; T HUSEMOEN

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; FETHERSTONHAUGH AND CO; PRINS HENDRIK WILLEM

Designated states: AL AM AT AU AZ 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 MK ML MN MR MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SZ TJ TM TR TT UA UG US UZ VN