

PatBase - Search results 09 April 2019

Search query (17): [SP]: 1. process for preparing a tile adhesive blend comprising blending a binder, and aggregate and a setting accelerator, wherein said setting accelerator is a powder comprising calcium nitrate, wherein at least 70 weight percent of the powder has a particle size of between 0.01 mm to 1 mm, and wherein the powder comprises at least 70 weight percent calcium nitrate. 2. process according to claim 1, wherein the powder comprises a further nitrate salt different from calcium nitrate. 3. process according to claim 1, wherein the powder comprises 75 weight percent to 80 weight percent of calcium nitrate and 7 weight percent to 11 weight percent of potassium nitrate or ammonium nitrate. 4. process according to claim 1, wherein the powder has a water content between 0.1 weight percent and 20 weight percent. 5. process according to claim 1, wherein at least 80 weight percent of the powder has a particle size of between 0.01 mm to 1 mm. 6. process for obtaining a tile adhesive blend according to claim 1 further comprising the step of preparing an accelerator in the form of a powder comprising at least 70 weight percent calcium nitrate, wherein at least 70 weight percent of the powder has a particle size of between 0.01 mm and 1 mm, the step comprising cutting or grinding prills and/or granules comprising at least calcium nitrate. 7. process for obtaining a tile adhesive blend according to claim 1 further comprising the step of preparing an accelerator in the form of a powder, said powder comprising at least 70 weight percent calcium nitrate, wherein at least 70 weight percent of the powder has a particle size of between 0.01 mm and 1 mm, the step comprising spray drying an aqueous solution comprising calcium nitrate, at a temperature between 150 degrees centigrade and 250 degrees centigrade 8. the process according to claim 1, wherein at least 70 weight percent of the powder has a particle size between 0.1 mm to 1.0 mm. 9. the process according to claim 2 wherein the further nitrate salt is potassium nitrate or ammonium nitrate. 10. process for producing a setting accelerator in the form of a powder, comprising calcium nitrate, for a tile adhesive blend, characterised in that the process comprises the step of cutting or grinding prills and/or granules comprising at least calcium nitrate to obtain the powder, wherein at least 70 weight percent of the powder has a particle size of between 0.01 mm to 1 mm. 11. process according to claim 10, wherein the prills and/or granules comprise at least a further nitrate salt different from calcium nitrate. 12. process according to claim 10, wherein the prills and/or granules are cut or grinded at a temperature between 10 degrees centigrade and 40 degrees centigrade 13. process according to claim 10, wherein the prills and/or granules are cut or grinded at a relative humidity of between 1 percent and 45 percent. 14. process according to claim 10, wherein at least 80 weight percent of the powder has a particle size of between 0.01 mm to 1 mm. 15. process for producing a setting accelerator in the form of a powder, comprising calcium nitrate, for a tile adhesive blend, wherein at least 70 weight percent of the powder has a particle size of between 0.01 mm and 1 mm, characterised in that the process comprises the step of spray drying an aqueous solution comprising calcium nitrate, at a temperature between 150 degrees centigrade and 250 degrees centigrade 16. process according to claim 15, wherein the aqueous solution comprises 50 weight percent of calcium nitrate. 17. process according to claim 15, wherein the aqueous solution comprises a nitrate salt different from calcium nitrate. 18. process according to claim 15, wherein at least 80 weight percent of the powder has a particle size of between 0.01 mm to 1 mm. 19. tile adhesive blend comprising at least a cement, an aggregate and a setting accelerator, characterised in that the setting accelerator is in the form of a powder comprising at least 70 weight percent calcium nitrate, wherein at least 70 weight percent of the powder has a particle size of between 0.01 mm and 1 mm, and optionally wherein the tile adhesive blend has a weight ratio of setting accelerator to cement of 0.005 to 0.05, and/or a weight ratio of aggregate to cement of between 2 and 4. 20. tile adhesive blend according to claim 19, wherein at least 80 weight percent of the powder has a particle size of between 0.01 mm to 1 mm. 21. tile adhesive paste comprising a tile adhesive blend according to claim 19 and water, wherein the weight ratio of water to cement ranges from 0.4 to 0.8.

Results: 6

Search history

Search Grain+ or granule+ or speck+ or particle+ or pimple+ (Results 1000000)

1:

Search cut+ or chop+ or hack+ or slic+ or break+ or grind+ or mill+ crush+ (Results 1000000)

2:

Search calcium w1 nitrate (Results 18584)

3:

Search particle w1 size (Results 588697)

4:

Search lime w1 nitrate (Results 160)

5:

Search nitrocalcite (Results 15)

6:

Search CAS-10124-37-5 (Results 1)

7:

Search 1 and (3 or 5) (Results 7548)

8:

Search 8 and 4 (Results 4866)

9:

Search setting w1 accelerator (Results 1327)

10:

Search setting (Results 1000000)

11:

Search 9 and 11 (Results 1115)

12:

Search 12 and 10 (Results 35)

13:

Search HARDENING w1 ACCELERATOR (Results 3042)

14:

Search 9 and 14 (Results 41)

15:

Search 15 NOT silicate (Results 8)

16:

Search [SP]: 1. process for preparing a tile adhesive blend comprising blending a binder, and aggregate and a setting accelerator, wherein said setting accelerator is a powder comprising calcium nitrate, wherein at least 70 weight percent of the powder has a particle size of between 0.01 mm to 1 mm, and wherein the powder comprises at least 70 weight percent calcium nitrate. 2. process according to claim 1, wherein the powder comprises a further nitrate salt different from calcium nitrate. 3. process according to claim 1, wherein the powder comprises 75 weight percent to 80 weight percent of calcium nitrate and 7 weight percent to 11 weight percent of potassium nitrate or ammonium nitrate. 4. process according to claim 1, wherein the powder has a water content between 0.1 weight percent and 20 weight percent. 5. process according to claim 1, wherein at least 80 weight percent of the powder has a particle size of between 0.01 mm to 1 mm. 6. process for obtaining a tile adhesive blend according to claim 1 further comprising the step of preparing an accelerator in the form of a powder comprising at least 70 weight percent calcium nitrate, wherein at least 70 weight percent of the powder has a particle size of between 0.01 mm and 1 mm, the step comprising cutting or grinding prills and/or granules comprising at least calcium nitrate. 7. process for obtaining a tile adhesive blend according to claim 1 further comprising the step of preparing an accelerator in the form of a powder, said powder comprising at least 70 weight percent calcium nitrate, wherein at least 70 weight percent of the powder has a particle size of between 0.01 mm and 1 mm, the step comprising spray drying an aqueous solution comprising calcium nitrate, at a temperature between 150 degrees centigrade and 250 degrees centigrade 8. the process according to claim 1, wherein at least 70 weight percent of the powder has a particle size between 0.1 mm to 1.0 mm. 9. the process according to claim 2 wherein the further nitrate salt is potassium nitrate or ammonium nitrate. 10. process for producing a setting accelerator in the form of a powder, comprising calcium nitrate, for a tile adhesive blend, characterised in that the process comprises the step of cutting or grinding prills and/or granules comprising at least calcium nitrate to obtain the powder, wherein at least 70 weight percent of the powder has a particle size of between 0.01 mm to 1 mm. 11. process according to claim 10, wherein the prills and/or granules comprise at least a further nitrate salt different from calcium nitrate. 12. process according to claim 10, wherein the prills and/or granules are cut or grinded at a temperature between 10 degrees centigrade and 40 degrees centigrade 13. process according to claim 10, wherein the prills and/or granules are cut or grinded at a relative humidity of between 1 percent and 45 percent. 14. process according to claim 10, wherein at least 80 weight percent of the powder has a particle size of between 0.01 mm to 1

mm. 15. process for producing a setting accelerator in the form of a powder, comprising calcium nitrate, for a tile adhesive blend, wherein at least 70 weight percent of the powder has a particle size of between 0.01 mm and 1 mm, characterised in that the process comprises the step of spray drying an aqueous solution comprising calcium nitrate, at a temperature between 150 degrees centigrade and 250 degrees centigrade 16. process according to claim 15, wherein the aqueous solution comprises 50 weight percent of calcium nitrate. 17. process according to claim 15, wherein the aqueous solution comprises a nitrate salt different from calcium nitrate. 18. process according to claim 15, wherein at least 80 weight percent of the powder has a particle size of between 0.01 mm to 1 mm. 19. tile adhesive blend comprising at least a cement, an aggregate and a setting accelerator, characterised in that the setting accelerator is in the form of a powder comprising at least 70 weight percent calcium nitrate, wherein at least 70 weight percent of the powder has a particle size of between 0.01 mm and 1 mm, and optionally wherein the tile adhesive blend has a weight ratio of setting accelerator to cement of 0.005 to 0.05, and/or a weight ratio of aggregate to cement of between 2 and 4. 20. tile adhesive blend according to claim 19, wherein at least 80 weight percent of the powder has a particle size of between 0.01 mm to 1 mm. 21. tile adhesive paste comprising a tile adhesive blend according to claim 19 and water, wherein the weight ratio of water to cement ranges from 0.4 to 0.8. (Results 6)

Title: Additive composition for Portland cement materials

Abstract: An additive composition has been formulated which accelerates the setting time, and also improves the compressive strength of Portland type cement, mortars and concretes. The additive composition consists essentially of a concentrated aqueous solution of calcium nitrate and a waste byproduct stream of a mixture of polyethanolamines (referred to as "triethanolamine bottoms") to which solution is added a minor amount of an alkali metal or alkaline earth metal salt of a polyhydroxy aliphatic compound such as gluconic acid, or of lignosulfonic acid.

Classifications:

International (IPC 8-9): C04B24/00 C04B28/04 (Advanced/Invention);
C04B24/00 C04B28/00 (Core/Invention);
C04B (Subclass/Invention)

International (IPC 1-7): C04B13/20 C04B7/06 C04B7/35

CPC: C04B24/001 C04B28/04

European: C04B24/00B C04B28/04

US: 106/713 106/725 106/727 106/90

PatBase - CA1157488_A1

SUBSTITUTE

REMPLACEMENT

SECTION is not Present

Cette Section est Absente

Family:

Publication number	Publication date	Application number	Application date
CA1157488 A1	19831122	CA19820399423	19820325
DK6683 A	19830110	DK19830000066	19830110
DK6683 A0	19830110	DK19830000066	19830110
EP0078315 A1	19830511	EP19820901887	19820505
EP0078315 A4	19830609	EP19820901887	19820505
FI824492 A	19821228	FI19820004492	19821228
FI824492 A0	19821228	FI19820004492	19821228
FI824492 L	19821228	FI19820004492	19821228
NO830031 A	19830106	NO19830000031	19830106
US4337094 A	19820629	US19810262488	19810511
WO8204038 A1	19821125	WO1982US00595	19820505

Priority:

US19810262488 19810511 CA19820399423 19820325 WO1982US00595 19820505

Probable Assignee: EUCLID CHEM

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Inventor(s): (std): TOKAR VALERY

Inventor(s): VALERY TOKAR

Agent(s): GOWLING LAFLEUR HENDERSON LLP

Designated states: AT CH DE DK FI FR GB LI NL NO SE

Title: SETTING ACCELERATOR FOR A DRY MORTAR BLEND, PROCESS FOR PRODUCING SUCH A SETTING ACCELERATOR, A DRY MORTAR BLEND AND A MORTAR PASTE

Abstract: The invention relates to a setting accelerator for a dry mortar blend, the setting accelerator being in the form of a powder comprising calcium nitrate and having a water content between 0.1 percent and 20 percent. The invention furthermore relates to a process for producing such a setting accelerator, wherein either prills and/or granules comprising calcium nitrate and a different nitrate salt are processed forming a powder comprising calcium nitrate and the different nitrate salt and having a water content of higher than 5 percent and lower than 20 percent, either an aqueous solution at least comprising dissolved calcium nitrate is spray dried at a temperature between 150 degrees centigrade and 250 degrees centigrade, forming a powder comprising at least calcium nitrate and having a water content between 0.1 percent and 20 percent, the powder serving as the setting accelerator. The invention also relates to a dry mortar blend comprising at least a cement, sand and a setting accelerator according to the invention and to a mortar paste comprising the dry mortar blend according to the invention which is mixed with water.

Classifications:

International (IPC 8-9): C01F11/36 C04B22/08 C04B28/02

C04B28/04 C04B40/00 (Advanced/Invention);

C04B103/12 (Advanced/Non-invention);

C01F11/00 C04B22/00 C04B28/00 (Core/Invention)

CPC: C01F11/36 C04B28/04 C04B22/085 C04B28/02 C04B40/0042

C04B2103/12 C04B20/0076 C04B40/0608 C04B20/026 C04B20/04

US: 106/737

PatBase - US2016280597_AA

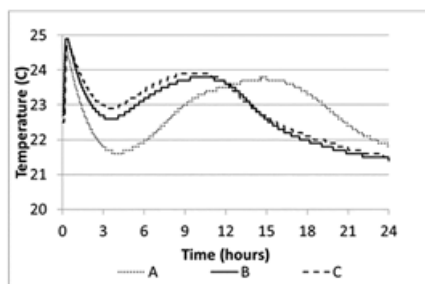


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
AR098305 AA	20160526	AR2014P104145	20141104
BR112016009903 A2	20170801	BR20161109903	20141104
CY1119724 T1	20180627	CY20171101184T	20171113
DE602014013619 D1	20171005	DE201460013619T	20141104
DK3066059 T3	20171127	DK20140793128T	20141104
EP3066059 A1	20160914	EP20140793128	20141104
EP3066059 B1	20170823	EP20140793128	20141104
ES2643079 T3	20171121	ES20140793128T	20141104
HR20171664 T1	20171215	HR20170001664	20171031
HU037351 T2	20180828	HU20140793128T	20141104
LT3066059 T	20171110	LT20140793128T	20141104
MK8235 T1	20180630	MK20170000735T	20170927
MX2016005752 A1	20160819	MX20160005752	20141104
MX359772 B	20181010	MX20160005752	20141104
NO20131471 A	20150506	NO20130001471	20131105
PT3066059 T	20171009	PT20140793128T	20141104
RS56560 B1	20180228	RS20170001137	20141104
SI3066059 T1	20171030	SI20140030357T	20141104
TR201716969 T4	20171221	TR20170016969T	20141104
US2016280597 AA	20160929	US20140033956	20141104
US9611176 BB	20170404	US20140033956	20141104
WO15067588 A1	20150514	WO2014EP73646	20141104

Priority:

NO20130001471 20131105 EP20140793128 20141104 WO2014EP73646 20141104

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Agent(s): PAPPAERT KRIS ; VALLEJO JUAN PEDRO ; ERKAN SEVINC ; AMSTER ROTHSTEIN AND EBENSTEIN LLP ; ONSAGERS AS

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

Title: VOLUME TILE ADHESIVE

Abstract: The use of a mixture consisting of a) alkaline hydraulic binder, b) cellulose ether, c) blowing agent, d) filler as a tile adhesive is claimed, wherein the blowing agent c) comprises peroxo compounds and/or percarbonates and/or aluminum powder and wherein the tile adhesive mixture has a maximum and stable volume increase of 50 percent by volume within five minutes after admixing of water. This mixture, which may also comprise further additives such as, for example, retardants, antifoams and polymer dispersion powders, in addition to said four components, has the advantage that the blowing agent used reacts virtually completely within 5 min and thus leads to a volume increase of the tile adhesive mixture of not more than 50 percent by volume. After it has hardened, the mixture has a high intrinsic strength but also sufficient bonding strength and adhesive strengths with respect to the tile/substrate system.

Classifications:

International (IPC 8-9): C04B14/06 C04B14/28 C04B22/04 C04B24/38 C04B28/02 C04B38/02 C04B40/06 C08J9/06 C09J11/00 C09J11/04 C09J11/06 (Advanced/Invention); C04B38/02 C04B40/00 (Core/Invention)

International (IPC 1-7): C04B38/02 C04B40/06

CPC: Y02W30/97 C04B38/02 C04B28/02 C04B28/06 C04B2111/00672

European: C04B28/02 C04B28/06 C04B38/02 M04B111/00T10B

US: 521/68 521/68P

Family:

Publication number	Publication date	Application number	Application date
AU2009237824 AA	20091022	AU20090237824	20090316
CA2725400 AA	20091022	CA20092725400	20090316
CN102026938 A	20110420	CN200980116841	20090316
DE102008018802 A1	20091022	DE200810018802	20080415
EP2268593 A1	20110105	EP20090733192	20090316
IN07308CN2010 A	20110729	IN2010CN07308	20101112
JP2011516707 T2	20110526	JP20110504398T	20090316
US2011034572 AA	20110210	US20090936927	20090316
WO09127484 A1	20091022	WO2009EP53048	20090316

Priority:

DE200810018802 20080415 WO2009EP53048 20090316

Probable Assignee: CONSTRUCTION RESEARCH AND TECHNOLOGY GMBH

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Inventor(s): MULLER PAUL

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Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC 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 ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: NITRATES

Abstract: A method of producing anhydrous calcium nitrate, anhydrous magnesium nitrate or mixture thereof involves removing water from a solution of calcium nitrate, magnesium nitrate or mixture thereof in a pulse combustion drier. The invention also provides a mixture of anhydrous calcium nitrate, anhydrous magnesium nitrate and the individual anhydrous nitrate salts in a sealed container.

Classifications:

International (IPC 8-9): C01B21/50 C01F11/36 C01F11/42 C01F11/44 C01F5/38 C09K3/00 (Advanced/Invention); C01F11/00 C01F5/00 C09K3/00 (Core/Invention); C01F (Subclass/Invention)

CPC: C01F5/38 C01F11/42 C01F11/44 C01P2006/82

European: C01F11/42 C01F11/44 C01F5/38 M01P6/82

US: 252/182.23 252/182.34 423/395 423/397 71/54

Family:

Publication number	Publication date	Application number	Application date
AU2006273760 AA	20070201	AU20060273760	20060727
AU2006273760 BB	20111110	AU20060273760	20060727
AU2006273760 BI	20120802	AU20060273760	20060727
CA2617344 AA	20080125	CA20062617344	20060727
CA2617344 C	20140401	CA20062617344	20060727
EP1917213 A1	20080507	EP20060795165	20060727
US2009189117 AA	20090730	US20060989466	20060727
US8524114 BB	20130903	US20060989466	20060727
WO07012951 A1	20070201	WO2006IB02045	20060727
ZA200800686 A	20091125	ZA20080000686	20060727

Priority:

ZA20050006011 20050727 ZA20060002845 20060407 WO2006IB02045 20060727
ZA20080000686 20060727

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Assignee(s): (std): ALASTAIR FORSYTH ; ALASTAIR JAMES FORSYTH ; ARTHUR BEWSEY JOHN ; BEWSEY JOHN ; BEWSEY JOHN ARTHUR ; FORSYTH ALASTAIR ; FORSYTH ALASTAIR JAMES ; JOHN BEWSEY ; JOHN ARTHUR BEWSEY

Assignee(s): PHIL 4 TRUST

Inventor(s): (std): ARTHUR BEWSEY JOHN ; BEWSEY JOHN ARTHUR ; FORSYTH ALASTAIR JAMES

Inventor(s): JOHN ARTHUR BEWSEY

Agent(s): GRIFFITH HACK; BORDEN LADNER GERVAIS LLP; JOHNSTONE HELEN MARGARET; LAHIVE AND COCKFIELD LLP FLOOR 30 SUITE 3000; ANTHONY A; NELSON MULLINS RILEY AND SCARBOROUGH LLP

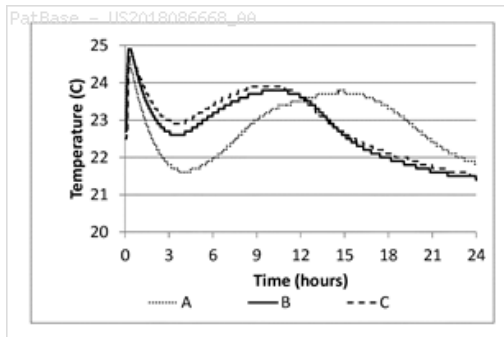
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Title: SETTING ACCELERATOR FOR A TILE ADHESIVE BLEND

Abstract: The application relates to the use of a powder comprising calcium nitrate as a setting accelerator for a tile adhesive blend, wherein nitrate powder comprising calcium nitrate, and optionally also comprising a nitrate salt different than the calcium nitrate, specifically potassium or ammonium nitrate, and having a particle size of between 0.01 mm and 1 mm is used as the setting accelerator. The application furthermore relates to a process for producing such a setting accelerator comprising, in one possible embodiment, the step of cutting or grinding prills and/or granules comprising the calcium nitrate and optionally the different nitrate salt, and in another embodiment, a spray drying process, resulting into the setting accelerator. The application also relates to a tile adhesive blend comprising at least a cement, sand and a such setting accelerator.

Classifications:

International (IPC 8-9): C04B20/00 C04B20/02 C04B20/04 C04B22/08 C04B28/02 C04B40/06 (Advanced/Invention); C04B103/12 C04B111/00 (Advanced/Non-invention)
CPC: C04B20/026 C04B20/008 C04B40/0608 C04B20/04 C04B22/085 C04B28/02 C04B2103/12 C04B2111/00637 C04B20/0076



Family:

Publication number	Publication date	Application number	Application date
AU2016256575 AA	20171012	AU20160256575	20160429
AU2016256575 BB	20180809	AU20160256575	20160429
BR112017023160 A2	20180724	BR20171123160	20160429
CA2981935 AA	20171005	CA20162981935	20160429
CO20170010020 A2	20180105	CO20170010020	20171003
EP3288909 A1	20180307	EP20160723281	20160429
MX2017013725 A1	20180302	MX20170013725	20160429
US2018086668 AA	20180329	US20160564857	20160429
US10053389 BB	20180821	US20160564857	20160429
WO16174190 A1	20161103	WO2016EP59585	20160429

Priority:

NO20150000525 20150430 WO2016EP59585 20160429

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Agent(s): WRAYS PTY LTD; GOWLING WLG CANADA LLP; CAROLINA MERCEDES DAZA MONTALVO; DE CLERCQ AND PARTNERS; AMSTER ROTHSTEIN AND EBENSTEIN LLP; PAPPAERT KRIS ET AL

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

Title: Method for manufacturing a calcium nitrate melt and product thereof

Abstract: The invention relates to a method for manufacturing a homogeneous and ammonium free calcium nitrate melt with high solidification temperature, suitable for conventional particulation methods, by mixing a potassium source with a calcium nitrate source and heating the formed mixture to 150-155 C. for forming a melt comprising 1.5-5.5 percent by weight of K (as KNO₃), 13-18 percent by weight of water and 70-80 percent by weight of Ca(NO₃)₂. The invention further relates to homogeneous and ammonium free calcium nitrate particles where the particles are a particulated product from a melt comprising 1.5-5.5 percent by weight of K (as KNO₃), 13-18 percent by weight of water and 70-80 percent by weight of Ca(NO₃)₂.

Classifications:

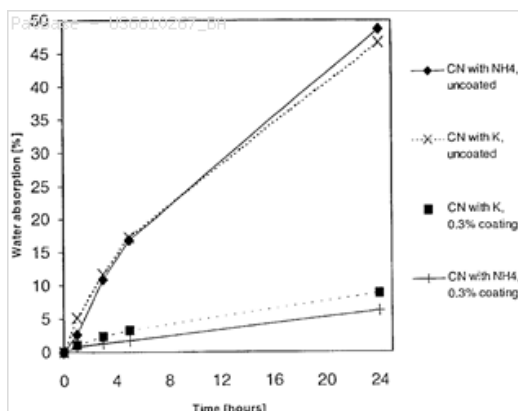
International (IPC 8-9): C01D9/12 C01F1/00 C01F11/36 C01F11/42 C01F11/44 C05C5/00 C05C5/02 C05C5/04 (Advanced/Invention); C05C5/04 C06B31/02 (Advanced/Non-invention); C01F11/00 C05C5/00 (Core/Invention)

International (IPC 1-7): C01F11/36 C01F11/44 C05C5/00 C05C5/02 C05C5/04

CPC: C05C5/005 C01F11/36 C01F11/44 C05C5/02

European: C01F11/36 C01F11/44 C05C5/00B C05C5/02

US: 23/293R 423/395 71/58



Family:

Publication number	Publication date	Application number	Application date
AU199943995 A1	20000201	AU19990043995	19990611
AU199943995 A5	20000201	AU19990043995	19990611
AU751804 B2	20020829	AU19990043995	19990611
CA2336607 AA	20010103	CA19992336607	19990611
CA2336607 C	20071127	CA19992336607	19990611
CL1999001306 A1	19991202	CL19990001306	19990617
CL43453 B	20080411	CL19990001306	19990617
CN1187296 C	20050202	CN19998008293	19990611
CN1308594 A	20010815	CN19998008293	19990611
CZ20010039 A3	20010613	CZ20010000039	19990611
CZ299118 B6	20080430	CZ20010000039	19990611
CZ299118 B6	20080430	CZ19390002001	19990611
ES2187303 AA	20030516	ES20010050001	19990611
ES2187303 BB	20040316	ES20010050001	19990611
NO313695 B1	20021118	NO19980003156	19980708
NO983156 A	20000110	NO19980003156	19980708
US6610267 BA	20030826	US20010743191	20010223
WO0002831 A1	20000120	WO1999NO00192	19990611
ZA200100107 A	20020626	ZA20010000107	20010104

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NO19980003156 19980708 CZ20010000039 19990611 WO1999NO00192 19990611

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