

Search query (2): [SP]: 1. a process for preparing an aqueous suspension comprising the steps of a) providing a mineral pigment material, b) providing a depolymerized carboxymethylcellulose having a degree of carboxylation in the range from 0.2 to 2.2, a molecular weight in the range from 5000 to 40000 g/mol, and a polydispersity index in the range from 2 to 10, wherein the depolymerized carboxymethyl cellulose is prepared by depolymerizing a high molecular weight carboxymethylcellulose in a process comprising the following steps: i) providing a high molecular weight carboxymethylcellulose having a molecular weight of more than 40000 g/mol and a degree of carboxylation in the range from 0.2 to 2.0, ii) providing a peroxide selected from hydrogen peroxide and/or an alkali metal salt thereof, iii) providing a catalyst, iv) mixing at least one part of the high molecular weight carboxymethylcellulose of step i) and/or at least one part of the peroxide of step ii) and/or at least one part of the catalyst of step iii) and water in any order at a reaction temperature from 50 to 85 degrees centigrade, and v) adding the remaining part of the high molecular weight carboxymethyl cellulose and/or the remaining part of the peroxide and/or the remaining part of the catalyst in one or more steps to the mixture obtained in step iv) until the mixture of step v) contains from 10 to 60 wt.- percent depolymerized carboxymethylcellulose, based on the total weight of the mixture of step v), and until the mixture of step v) at the same time has a brookfield viscosity between 30 and 10000 mpas at 20 degrees centigrade, wherein during step v) the brookfield viscosity of the mixture is maintained between 200 and 1500 mpas, measured at the reaction temperature, and c) mixing the depolymerized carboxymethylcellulose of step b), the mineral pigment material of step a) and water to form an aqueous suspension, wherein the mineral pigment material is added in an amount from 10 to 80 wt.- percent, based on the total weight of the suspension, and wherein the depolymerized carboxymethylcellulose is added in an amount from 0.05 to 5.0 wt.- percent, based on the total weight of the mineral pigment material in the suspension, and such that the brookfield viscosity of the aqueous suspension is between 40 and 2000 mpas at 20 degrees centigrade. 2. the process according to claim 1, wherein the mineral pigment material is a calcium carbonate containing material, preferably selected from calcium carbonate, calcium carbonate containing minerals, mixed carbonate based fillers, or mixtures thereof. 3. the process according to claim 1, wherein the mineral pigment material is kaolin, talc, gypsum, lime, magnesia, titanium dioxide, satin white, aluminium trioxide, aluminium trihydroxide, silica, mica, or mixtures thereof. 4. the process according to claim 1, wherein the mineral pigment material is in form of particles having a weight median particle size d50 from 0.1 to 100 micro m, from 0.25 to 50 micro m, or from 0.3 to 5 micro m, preferably from 0.4 to 3.0 micro m. 5. the process according to claim 1, wherein the degree of carboxylation of the depolymerized carboxymethylcellulose is in the range from 0.5 to 1.8, and preferably from 0.6 to 1.4. 6. the process according to claim 1, wherein the depolymerized carboxymethylcellulose is added in an amount from 0.05 to 3.0 wt.- percent, preferably from 0.1 to 2.0 wt.- percent, and more preferably from 0.2 to 1.0 wt.- percent, based on the total weight of the mineral pigment material of the suspension. 7. the process according to claim 1, wherein the depolymerized carboxymethyl cellulose has a polydispersity index from 2 to 5, preferably from 2.5 to 4.5, and more preferably from 3 to 4. 8. the process according to claim 1, wherein the depolymerized carboxymethyl cellulose has a molecular weight in the range from 8000 to 35000 g/mol, and most preferably in the range from 10000 to 20000 g/mol. 9. the process according to claim 1, wherein the solids content of the suspension obtained in step c) is adjusted so that it is from 45 to 80 wt.- percent, preferably from 50 to 78 wt.- percent, and more preferably from 60 to 75 wt.- percent, based on the total weight of the suspension. 10. the process according to claim 1, wherein the catalyst is selected from the group consisting of iron sulphate, sodium hypophosphite, iron phthalocyanine, sodium tungstate, or a mixture thereof. 11. the process according to claim 1, wherein the peroxide of step ii) is provided in an amount from 0.1 to 50 wt.- percent, preferably from 0.2 to 40 wt.- percent, and more preferably from 1 to 30 wt.- percent, based on the total amount of the high molecular weight cmc of step i). 12. the process according to claim 1, wherein after step iv) and before step v) the viscosity of the mixture obtained in step iv) is adjusted to a brookfield viscosity between 200 and 1500 mpas, measured at the reaction temperature, preferably by adding a further part of the remaining part of the high molecular weight carboxymethyl cellulose and/or a further part of the remaining part of the peroxide and/or a further part of the remaining part of the catalyst in one or more steps to the mixture obtained in step iv). 13. the process according to claim 1, wherein in step v) the remaining part of the high molecular weight carboxymethyl cellulose and/or the remaining part of the peroxide and/or the remaining part of the catalyst is/are added in one or more steps to the mixture obtained in step iv) until the mixture of step v) contains from 25 to 45 wt.- percent depolymerized carboxymethyl cellulose, preferably from 30 to 40 wt.- percent, based on the total weight of the mixture of step v), and/or until the mixture of step v) has a brookfield viscosity between 50 and 5000 mpas at 20 degrees centigrade, preferably between 1000 and 3000 mpas at 20 degrees centigrade, and most preferably between 1500 to 2500 mpas at 20 degrees centigrade. 14. an aqueous pigment particle suspension, obtainable by the process according to claim 1. 15. pigment particles obtainable by drying the aqueous pigment particle suspension according to claim 14, and optionally surface treating the dried particles. 16. use of the aqueous pigment particle suspension according to claim 14 in paper, plastics, paint, food, feed, pharmaceuticals, drinking water and/or agriculture applications. 17. use of the pigment particles according to claim 15 in plastics, paint and/or sealant applications.

Results: 11

Search history

Search TAC=(suspension and pigment and carboxymethylcellulose and hydrogen peroxide and catalyst) (Results 4)

1:

Search [SP]: 1. a process for preparing an aqueous suspension comprising the steps of a) providing a mineral pigment material, b) providing a depolymerized carboxymethylcellulose having a degree of carboxylation in the range from 0.2 to 2.2, a molecular weight in the range from 5000 to 40000 g/mol, and a polydispersity index in the range from 2 to 10, wherein the depolymerized carboxymethyl cellulose is prepared by depolymerizing a high molecular weight carboxymethylcellulose in a process comprising the following steps: i) providing a high molecular weight carboxymethylcellulose having a molecular weight of more than 40000 g/mol and a degree of carboxylation in the range from 0.2 to 2.0, ii) providing a peroxide selected from hydrogen peroxide and/or an alkali metal salt thereof, iii) providing a catalyst, iv) mixing at least one part of the high molecular weight carboxymethylcellulose of step i) and/or at least one part of the peroxide of step ii) and/or at least one part of the catalyst of step iii) and water in any order at a reaction temperature from 50 to 85 degrees centigrade, and v) adding the remaining part of the high molecular weight carboxymethyl cellulose and/or the remaining part of the peroxide and/or the remaining part of the catalyst in one or more steps to the mixture obtained in step iv) until the mixture of step v) contains from 10 to 60 wt.- percent depolymerized carboxymethylcellulose, based on the total weight of the mixture of step v), and until the mixture of step v) at the same time has a brookfield viscosity between 30 and 10000 mpas at 20 degrees centigrade, wherein during step v) the brookfield viscosity of the mixture is maintained between 200 and 1500 mpas, measured at the reaction temperature, and c) mixing the depolymerized carboxymethylcellulose of step b), the mineral pigment material of step a) and water to form an aqueous suspension, wherein the mineral pigment material is added in an amount from 10 to 80 wt.- percent, based on the total weight of the suspension, and wherein the depolymerized carboxymethylcellulose is added in an amount from 0.05 to 5.0 wt.- percent, based on the total weight of the mineral pigment material in the suspension, and such that the brookfield viscosity of the aqueous suspension is between 40 and 2000 mpas at 20 degrees centigrade. 2. the process according to claim 1, wherein the mineral pigment material is a calcium carbonate containing material, preferably selected from calcium carbonate, calcium carbonate containing minerals, mixed carbonate based fillers, or mixtures thereof. 3. the process according to claim 1, wherein the mineral pigment material is kaolin, talc, gypsum, lime, magnesia, titanium dioxide, satin white, aluminium trioxide, aluminium trihydroxide, silica, mica, or mixtures thereof. 4. the process according to claim 1, wherein the mineral pigment material is in form of particles having a weight median particle size d50 from 0.1 to 100 micro m, from 0.25 to 50 micro m, or from 0.3 to 5 micro m, preferably from 0.4 to 3.0 micro m. 5. the process according to claim 1, wherein the degree of carboxylation of the depolymerized carboxymethylcellulose is in the range from 0.5 to 1.8, and preferably from 0.6 to 1.4. 6. the process according to claim 1, wherein the depolymerized carboxymethylcellulose is added in an amount from 0.05 to 3.0 wt.- percent, preferably from 0.1 to 2.0 wt.- percent, and more preferably from 0.2 to 1.0 wt.- percent, based on the total weight of the mineral pigment material of the suspension. 7. the process according to claim 1, wherein the depolymerized carboxymethyl cellulose has a polydispersity index from 2 to 5, preferably from 2.5 to 4.5, and more preferably from 3 to 4. 8. the process according to claim 1, wherein the depolymerized carboxymethyl cellulose has a molecular weight in the range from 8000 to 35000 g/mol, and most preferably in the range from 10000 to 20000 g/mol. 9. the process according to claim 1, wherein the solids content of the suspension obtained in step c) is adjusted so that it is from 45 to 80 wt.- percent, preferably from 50 to 78 wt.- percent, and more preferably from 60 to 75 wt.- percent, based on the total weight of the suspension. 10. the process according to claim 1, wherein the catalyst is selected from the group consisting of iron sulphate, sodium hypophosphite, iron phthalocyanine, sodium tungstate, or a mixture thereof. 11. the process according to claim 1, wherein the peroxide of step ii) is provided in an amount from 0.1 to 50 wt.- percent, preferably from 0.2 to 40 wt.- percent, and more preferably from 1 to 30 wt.- percent, based on the total amount of the high molecular weight cmc of step i). 12. the process according to claim 1, wherein after step iv) and before step v) the viscosity of the mixture obtained in step iv) is adjusted to a brookfield viscosity between 200 and 1500 mpas, measured at the reaction temperature, preferably by adding a further part of the remaining part of the high molecular weight carboxymethyl cellulose and/or a further part of the remaining part of the peroxide and/or a further part of the remaining part of the catalyst in one or more steps to the mixture obtained in step iv). 13. the process according to claim 1, wherein in step v) the remaining part of the high molecular weight carboxymethyl cellulose and/or the remaining part of the peroxide and/or the remaining part of the catalyst is/are added in one or more steps to the mixture obtained in step iv) until the mixture of step v) contains from 25 to 45 wt.- percent depolymerized carboxymethyl cellulose, preferably from 30 to 40 wt.- percent, based on the total weight of the mixture of step v), and/or until the mixture of step v) has a brookfield viscosity between 50 and 5000 mpas at 20 degrees centigrade, preferably between 1000 and 3000 mpas at 20 degrees centigrade, and most preferably between 1500 to 2500 mpas at 20 degrees centigrade. 14. an aqueous pigment particle suspension, obtainable by the process according to claim 1. 15. pigment particles obtainable by drying the aqueous pigment particle suspension according to claim 14, and optionally surface treating the dried particles. 16. use of the aqueous pigment particle suspension according to claim 14 in paper, plastics, paint, food, feed, pharmaceuticals, drinking water and/or agriculture applications. 17. use of the pigment

1) Family number: 23557055 (GB1139637A)

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Title: Process for the manufacture of low viscosity water-soluble cellulose ethers

Abstract: Source: GB1139637A 1,139,637. Cellulose ethers of reduced viscosity. KALLE A.G. 27 May, 1966 [29 May, 1965], No. 23958/66. Heading C3A. The viscosity of a water-soluble cellulose ether is reduced by mixing it with a solution of hydrogen peroxide in water only, such that the weight of H₂O₂ is 0A1-10 percent based on the dry cellulose ether, and the total water content does not exceed 75 percent, and the mixture is then dried at 100-250° C. until the H₂O₂ is at least 95 percent destroyed. The starting ether may contain 20-55 percent water. Carboxymethyl, methyl, methylhydroxymethyl and methylhydroxypropyl celluloses are specified. An alkali, e.g. NaOH or Na₂CO₃, may be present in the amount 0A1-0A3 weight per cent to give a pH of 9-11. The final product may be rendered granular.

Classifications:

International (IPC 8-9): C08B11/20 (Advanced/Invention);

C08B11/00 (Core/Invention)

International (IPC 1-7): C08B11/20 C08B21/24

CPC: C08B11/20

European: C08B11/20

Family:

Publication number	Publication date	Application number	Application date
BE681669 A	19661128		19660526
CH461455 A	19680831	CH19660007667	19660526
DE1543116 A1	19690731	DE19651543116	19650529
FR1481493 A	19670519	FR19660063273	19660527
GB1139637 A	19690108	GB19660023958	19660527
LU51202 A	19680221		19660527
NL6606972 A	19661130	NL19660006972	19660520

Priority:

DE1965K056264 19650529 FR19660063273 19660527

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Assignee(s): KALLE AKTIENGESELLSCHAFT

Inventor(s): (std): HANS MACHOLDT DR ; JANOSCH SIEGFRIED DR ; MACHOLDT HANS DR ; SIEGFRIED JANOSCH DR

2) Family number: 9403470 (US5708162A)

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Title: Process for the preparation of low molecular weight polysaccharide ethers

Abstract: Source: US5708162A Process for the preparation of low molecular weight polysaccharide ethers which can be employed in binders for improving adhesive power and film-forming properties, by oxidative degradation of relatively high molecular weight polysaccharide ethers, which comprises initially introducing a relatively high molecular weight polysaccharide ether in suspension (e.g. in a slurry), adding a perborate or a mixture of perborate and perborate activator, and carrying out the oxidative degradation at a temperature of between 25 DEG and 90 DEG C.

Classifications:

International (IPC 8-9): C08B11/00 C08B11/20 C08B31/08

C08B37/00 (Advanced/Invention);

C08B17/00 (Advanced/Non-invention);

C08B11/00 C08B31/00 C08B37/00 (Core/Invention)

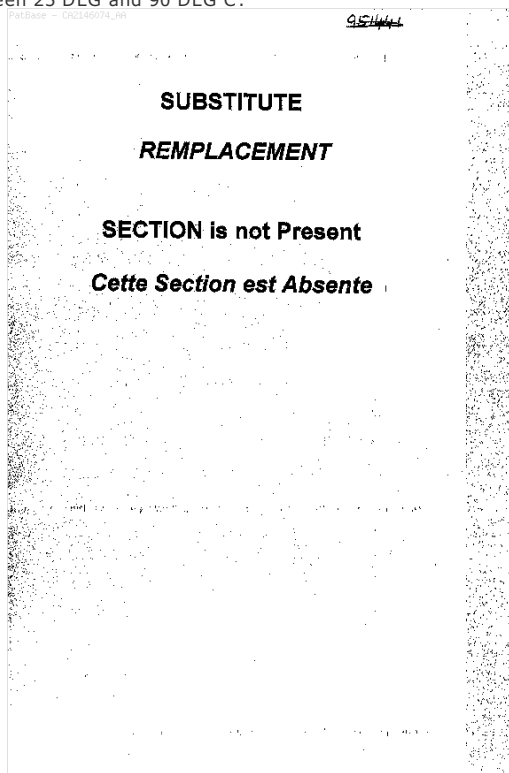
International (IPC 1-7): C07G17/00 C07H1/00 C07H1/06 C08B

C08B11/00 C08B11/02 C08B11/20 C08B31/08 C08B37/00

CPC: C08B11/20 C08B31/08 C08B37/0087

European: C08B11/20 C08B31/08 C08B37/00P6

US: 536/1.11 536/102 536/111 536/123.1 536/124 536/127 536/128 536/30 536/43 536/45 536/50 536/56 536/84



Family:

Publication number	Publication date	Application number	Application date
CA2146074 AA	19951006	CA19952146074	19950331
DE4411681 A1	19951012	DE19944411681	19940405
DE59506068 D1	19990708	DE19955006068	19950403
EP0676415 A2	19951011	EP19950104945	19950403
EP0676415 A3	19951018	EP19950104945	19950403
EP0676415 B1	19990602	EP19950104945	19950403
FI109909 B	20021031	FI19950001572	19950403
FI951572 A	19951006	FI19950001572	19950403
FI951572 A0	19950403	FI19950001572	19950403
JP8041101 A2	19960213	JP19950079029	19950404
KR19950032261 A	19951220	KR19950007662	19950403
US5708162 A	19980113	US19950416185	19950404

Priority:

CA19952146074 19950331 DE19944411681 19940405 DE19955006068 19950403

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Agent(s): FETHERSTONHAUGH AND CO

Designated states: DE FR GB IT NL

3) Family number: 44130082 (US2011136954A)

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Title: BIOSOURCED ACROLEIN POLYMER, METHOD FOR OBTAINING SAME, AND USES THEREOF

Abstract: Source: US2011136954A The present invention relates to an acrolein polymer containing a carbon biosourced according to the ASTM D6866-06 standard, and to the preparation method thereof including a first step for dehydrating glycerol from a glycerol aqueous solution in the presence of an acid catalyst, followed by a polymerization of the obtained substance in the presence of an ionic catalyst or a free radical initiator. The polymer according to the invention has numerous uses in the fields of animal health, antibiotics, disinfection and sterilization, cosmetics, drilling sludge, paints and inks, and the paper and textile industries, and responds to certain sustainable development concerns.

Classifications:

International (IPC 8-9): A01N35/02 A01P1/00 A23K1/17 A23K20/195 A61K31/765 A61K8/81 A61P17/00 A61P31/00 A61Q19/00 C08F16/34 C08F2/00 C08F20/06 C08F8/00 C08F8/06 C08F8/28 C08G2/14 C08K3/26 C08K5/05 C08L29/00 C08L29/14 C08L61/02 (Advanced/Invention); A01N35/00 A01P1/00 A23K1/17 A61K31/74 A61K8/72 A61P17/00 A61P31/00 A61Q19/00 C08F16/00 C08G2/00 C08L29/00 (Core/Invention)

CPC: A23K20/195 A01N35/02 A61K8/8129 A61K31/13 A61L2/18 A61Q19/00 C08F216/34 C09D129/14

European: A01N35/02 A23K1/17 A61K31/13 A61K8/81G A61Q19/00 C08F216/34 C09D129/14 K61L2/18

US: 524/379 524/424 524/424S 524/543 524/543S 525/384 525/384S 526/315 526/315S 526/75 526/75S

Family:

Publication number	Publication date	Application number	Application date
EP2288629 A1	20110302	EP20090766091	20090619
FR2932804 A1	20091225	FR20080054057	20080619
FR2932804 B1	20100730	FR20080054057	20080619
JP2011524927 T2	20110908	JP20110514103T	20090619
US2011136954 AA	20110609	US20090999879	20090619
WO09153529 A1	20091223	WO2009FR51171	20090619

Priority:

FR20080054057 20080619 WO2009FR51171 20090619

Probable Assignee: ARKEMA FRANCE

Assignee(s): (std): ARKEMA FRANCE ; DUBOIS JEAN LUC

Inventor(s): (std): DUBOIS JEAN LUC

Inventor(s): JEAN LUC DUBOIS

Agent(s): BONNEL CLAUDINE; ARKEMA FRANCE

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 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

4) Family number: 45165518 (FR2939055A)

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Title: USE OF A MINERAL MATERIAL, HOMOPOLYMER OR COPOLYMER OF ACRYLIC ACID, AS DISPERSING AGENT AND/OR GRINDING AID AGENT, WHERE THE ACRYLIC ACID IS OBTAINED FROM GLYCEROL

Abstract: Use of a mineral material, homopolymer or copolymer of acrylic acid, as dispersing agent and/or grinding aid agent, where the acrylic acid is obtained from glycerol, is claimed.

Classifications:

International (IPC 8-9): B01F17/52 B02C23/06 C09C1/00 (Advanced/Invention);

B01F17/52 B02C23/00 C09C1/00 (Core/Invention)

CPC: B01F17/0028 B01F17/005 B02C23/06 B82Y30/00 C01P2004/51 C01P2004/62 C01P2004/64 C01P2006/22 C09C1/021 C09C1/04 C09C1/30 C09C1/36 C09C1/405 C09C1/407 C09C1/48 C09C3/04

European: B01F17/00E2 B01F17/00K2 B02C23/06 B82Y30/00 C09C1/02B C09C1/04 C09C1/30 C09C1/36 C09C1/40D C09C1/40F C09C1/48 C09C3/04 M01P4/51 M01P4/62 M01P4/64 M01P6/22

Family:

Publication number	Publication date	Application number	Application date
FR2939055 A1	20100604	FR20080058219	20081203

Priority:

FR20080058219 20081203

Probable Assignee:

COATEX SAS

Assignee(s): (std):

COATEX SAS

Assignee(s):

COATEX S A S

Inventor(s): (std):

SUAU JEAN MARC

Inventor(s):

JEAN MARC SUAU

Agent(s):

COATEX SAS

5) Family number: 52062828 (US2014165879A)

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Title: PROCESS FOR PREPARING SELF-BINDING PIGMENT PARTICLES

Abstract: Source: US2014165879A The present invention relates to a process for preparing self-binding pigment particles from an aqueous mineral pigment material suspension having a solid content of 45 to 80 wt.- percent, based on the total weight of the suspension.

Classifications:

International (IPC 8-9): C01F11/18 C08K3/26 C08L1/26 C09C1/00 C09C1/02 C09C1/62 C09C3/10 C09D17/00 C09D201/00 C09D7/12 D21H17/00 D21H17/26 D21H17/63 D21H17/67 D21H17/69 D21H19/38 D21H19/44 D21H27/00 (Advanced/Invention); C09C1/00 D21H17/00 (Core/Invention)

CPC: C09C1/021 C01P2004/62 C01P2006/22 C01P2006/60 D21H17/00 D21H17/26 D21H17/69

European: C09C1/02B D21H17/26 D21H17/69 M01P4/62 M01P6/22 M01P6/60

US: 1/1 106/465 106/501.1 162/139 162/162

PatBase - US2014165879_AA

FIGURES

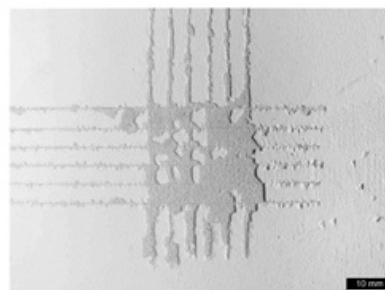


Fig. 1

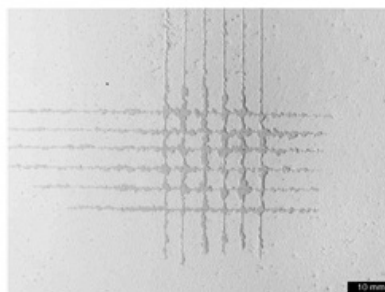


Fig. 2

Family:

Publication number	Publication date	Application number	Application date
AR085583 AA	20131009	AR2012P101020	20120327
AU2012234466 AA	20121004	AU20120234466	20120322
AU2012234466 BB	20141023	AU20120234466	20120322
CA2831460 AA	20130926	CA20122831460	20120322
CA2831460 C	20170103	CA20122831460	20120322
CL2013002777 A1	20140711	CL20130002777	20130927
CN103476874 A	20131225	CN201280016102	20120322
CN103476874 B	20150211	CN201280016102	20120322
CO6771456 A2	20131015	CO20130229479	20130926
DE602011003627 D1	20140109	DE201160003627T	20110401
DE602012010005 D1	20151008	DE201260010005T	20120322
DK2505614 T3	20140127	DK20110160900T	20110401
DK2694598 T3	20151207	DK20120711609T	20120322
EP2505614 A1	20121003	EP20110160900	20110401
EP2505614 B1	20131113	EP20110160900	20110401
EP2694598 A1	20140212	EP20120711609	20120322
EP2694598 B1	20150826	EP20120711609	20120322
EP2982719 A1	20160210	EP20150182223	20120322
ES2444952 T3	20140227	ES20110160900T	20110401
ES2548834 T3	20151021	ES20120711609T	20120322
HR20140069 T1	20140228	HR20140000069	20140121

HR20151154 T1	20151204	HR20150001154	20151029
IN01742MN2013 A	20140926	IN2013MN01742	20130916
JP2014513170 T2	20140529	JP20140501540T	20120322
JP5964405 B2	20160803	JP20140501540T	20120322
KR20130138319 A	20131218	KR20137028788	20120322
KR20150126721 A	20151112	KR20157030846	20120322
MX2013010889 A1	20131216	MX20130010889	20120322
PT2505614 T	20140130	PT20110160900T	20110401
PT2694598 T	20151030	PT20120711609T	20120322
RU2013148746 A	20150510	RU20130148746	20120322
RU2556659 C2	20150710	RU20130148746	20120322
SI2505614 T1	20140228	SI20110030098T	20110401
SI2694598 T1	20151030	SI20120030301T	20120322
TW201241108 A	20121016	TW20120110693	20120328
US2014165879 AA	20140619	US20120005940	20120322
US9365723 BB	20160614	US20120005940	20120322
UY33979 A1	20121031	UY20120033979	20120328
WO12130702 A1	20121004	WO2012EP55053	20120322

Priority:

EP20110160900 20110401 EP20120711609 20120322 US20110473215P 20110408
WO2012EP55053 20120322 US20120005940 20120322 EP20150182223 20120322

Probable Assignee: OMYA INT AG

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Inventor(s): PATRICK A C GANE ; PATRICK AC GANE ; JULIE BRIDY ; JULIE M MEUWLY ; GANE PATRICK AC ; GANE PATRICK A

Agent(s): SPRUSON AND FERGUSON; ROBIC; ESTUDIO FEDERICO VILLASECA Y CIA; ALICIA LLOREDA RICAURTE; MAIWALD PATENTANWALTSGESELLSCHAFT MBH; GLAS HOLGER; BOOS MELANIE; CARVAJAL Y ISABEL; KAWAGUTI AND PARTNERS; AMSTER ROTHSTEIN AND EBENSTEIN LLP

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

6) Family number: 52062829 (US2014165877A)

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Title: SELF-BINDING PIGMENT HYBRID

Abstract: Source: US2014165877A The present invention relates to a process for preparing self-binding pigment particles from an aqueous mineral pigment material suspension having a solid content of 45 to 80 wt.- percent, based on the total weight of the suspension.

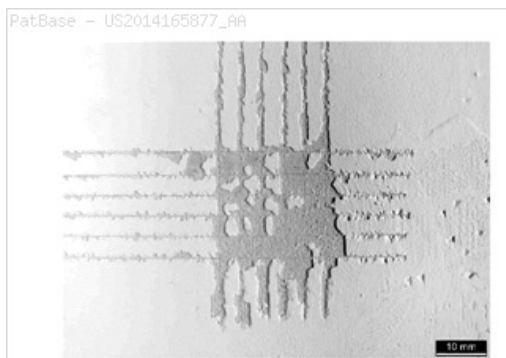
Classifications:

International (IPC 8-9): A01N3/00 C09C1/02 C09C1/62 C09C3/04 C09C3/10 C09D101/28 C09D201/00 C09D7/12 D21H17/00 D21H17/24 D21H17/67 D21H17/69 D21H19/38 D21H19/42 (Advanced/Invention); A01N3/00 C09C1/00 C09D101/00 D21H17/00 D21H19/00 (Core/Invention)

CPC: C01P2004/22 C01P2004/62 C01P2006/22 C01P2006/60 D21H17/24 D21H17/67 D21H17/69 D21H19/38 D21H19/42 D21H17/00 C09D101/286 A01N3/00 C09C1/021 C01P2004/51

European: C09C1/02B D21H17/24 D21H17/67 D21H17/69 D21H19/38 D21H19/42 M01P4/22 M01P4/62 M01P6/22 M01P6/60

US: 106/217.9 106/465 106/471 106/501.1 162/175



Family:

Publication number	Publication date	Application number	Application date
AR085727 AA	20131023	AR2012P101046	20120328
AU2012234470 AA	20121004	AU20120234470	20120322
AU2012234470 AB	20140109	AU20120234470	20120322
AU2012234470 AH	20140109	AU20120234470	20120322
AU2012234470 BB	20141106	AU20120234470	20120322
BR112013024953 A2	20161220	BR20131124953	20120322
CA2831462 AA	20130926	CA20122831462	20120322
CL2013002778 A1	20140711	CL20130002778	20130927
CN103476875 A	20131225	CN201280016108	20120322
CN103476875 B	20150422	CN201280016108	20120322
CO6821918 A2	20131231	CO20130229423	20130926
CO6821918 A2	20131231	CO20140238760	20130926
DE602011006687 D1	20140618	DE201160006687T	20110401
DE602012021454 D1	20160922	DE201260021454T	20120322
DK2505615 T3	20140804	DK20110160926T	20110401
DK2694597 T3	20161205	DK20120709889T	20120322

EP2505615 A1	20121003	EP20110160926	20110401
EP2505615 B1	20140507	EP20110160926	20110401
EP2505615 B9	20141029	EP20110160926	20110401
EP2694597 A1	20140212	EP20120709889	20120322
EP2694597 B1	20160810	EP20120709889	20120322
ES2487639 T3	20140822	ES20110160926T	20110401
ES2487639 T8	20141103	ES20110160926T	20110401
ES2602259 T3	20170220	ES20120709889T	20120322
IN01798MN2013 A	20140926	IN2013MN01798	20130924
JP2014514393 T2	20140619	JP20140501541T	20120322
KR101617072 B1	20160429	KR20137028784	20120322
KR20130138318 A	20131218	KR20137028784	20120322
MX2013010890 A1	20131206	MX20130010890	20120322
MX338167 B	20160406	MX20130010890	20120322
PT2505615 T	20140711	PT20110160926T	20110401
PT2694597 T	20161103	PT20120709889T	20120322
RU2013148748 A	20150510	RU20130148748	20120322
RU2562291 C2	20150910	RU20130148748	20120322
SI2505615 T1	20140829	SI20110030201T	20110401
SI2694597 T1	20161130	SI20120030734	20120322
TR201614970 T4	20161121	TR20160014970T	20120322
TW201241109 A	20121016	TW20120110694	20120328
TWI421312 B	20140101	TW20120110694	20120328
US2014165877 AA	20140619	US20120005899	20120322
UY33977 A1	20121031	UY20120033977	20120328
WO12130706 A1	20121004	WO2012EP55059	20120322

Priority:

EP20110160926 20110401 EP20120709889 20120322 US20110473224P 20110408
WO2012EP55059 20120322 US20120005899 20120322 ES20110160926T 20110401

Probable Assignee: OMYA INT AG

Assignee(s): (std): BRIDY MEUWLY JULIE ; BURI MATTHIAS ; GANE PATRICK A C ; OMYA DEVELOPMENT AG ; MEUWLY JULIE ; RENTSCH SAMUEL ; OMYA INT AG ; OMIA INTERNEHSHNL AG

Assignee(s): GANE PATRICK AC ; BRIDY JULIE

Inventor(s): (std): BRAJDI JULI ; BRIDY JULIE ; BRIDY MEUWLY JULIE ; BURI MATTHIAS ; BURI MATTIAS ; GANE PATRICK A C ; JULIE BRIDY ; JULIE MEUWLY ; MATTHIAS BURI ; MEUWLY JULIE ; PATRICK A C GANE ; GEJN PATRIK A K ; RENCH SAMUEHL ; RENTSCH SAMUEL ; SAMUEL RENTSCH

Inventor(s): GEJN PATRIK AK ; PATRICK AC GANE ; GANE PATRICK AC

Agent(s): SPRUSON AND FERGUSON; ROBIC; ESTUDIO FEDERICO VILLASECA Y CIA; ALICIA LLOREDA RICAURTE; MAIWALD PATENTANWALTSGESELLSCHAFT MBH; GLAS HOLGER; MAIWALD WALTER; CARVAJAL Y ISABEL; KAWAGUTI AND PARTNERS; DENIZ CELIKEL ETLIK MAH MELTEM SOK AYBUEKE APT NO 14 16 KECIOEREN ANKARA; DENIZ CELIKEL

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

7) Family number: 53174482 (US2015105260A)

© PatBase

Title: SELF-BINDING PIGMENT HYBRID

Abstract: Source: US2015105260A The present invention relates to a process for preparing self-binding pigment particles comprising the following steps: a) providing an aqueous mineral pigment material suspension; b) providing at least one polymeric binder, wherein the binder comprises at least one modified polysaccharide having a degree of carboxylation in the range of 0.4 to 2.0 and having an intrinsic viscosity in the range of >300 to 500 ml/g, c) mixing the binder of step b) with the aqueous mineral pigment material suspension of step a) and adjusting the solids content of the obtained suspension so that it is >45 to 95 wt.-% percent, preferably from 45 to 80 wt.-% percent, based on the total weight of the suspension, and d) grinding the aqueous mineral material suspension of step c).

Classifications:

International (IPC 8-9): A01N59/06 C08J3/07 C08K3/20 C08K3/32 C09C1/00 C09C1/02 C09C3/04 C09C3/06 C09C3/10 C09D101/10 C09D17/00 C09D201/00 C09D7/12 C09J101/10 D21H17/00 D21H17/25 D21H17/69 D21H19/42 (Advanced/Invention); C09C1/00 D21H17/00 (Core/Invention)

CPC: D21H17/69 D21H17/74 D21H19/42 C01P2004/62 C01P2006/22 C01P2006/60 D21H17/00 C09C3/10 D21H17/25 A01N59/06 C01P2004/50 C09C1/021

US: 106/447 106/465 106/471 106/501.1 162/177 504/367



Family:

Publication number	Publication date	Application number	Application date
AR087698 AA	20140409	AR2012P103170	20120828
AU2012300996 AA	20130307	AU20120300996	20120828
AU2012300996 BB	20140911	AU20120300996	20120828
BR112014004301 A2	20170328	BR20141104301	20120828
CA2845005 AA	20140210	CA20122845005	20120828
CA2845005 C	20170404	CA20122845005	20120828
CL2014000463 A1	20140922	CL20140000463	20140226
CN103827229 A	20140528	CN201280042192	20120828
CO6900150 A2	20140320	CO20140042282	20140227
DE602011004440 D1	20140220	DE201160004440T	20110831
DE602012012681 D1	20160107	DE201260012681T	20120828
DK2565236 T3	20140317	DK20110179572T	20110831
EP2565236 A1	20130306	EP20110179572	20110831
EP2565236 B1	20140101	EP20110179572	20110831
EP2751208 A1	20140709	EP20120755823	20120828
EP2751208 B1	20151125	EP20120755823	20120828
EP3009481 A1	20160420	EP20150195414	20120828
ES2456369 T3	20140422	ES20110179572T	20110831
HR20140231 T1	20140425	HR20140000231	20140312
IN00279MN2014 A	20141128	IN2014MN00279	20140212
JP2014531479 T2	20141127	JP20140527624T	20120828
JP6096193 B2	20170315	JP20140527624T	20120828
KR20140057593 A	20140513	KR20147006095	20120828
MX2014001976 A1	20140327	MX20140001976	20120828
PT2565236 T	20140325	PT20110179572T	20110831
RS53203 B	20140630	RS20140000112	20110831
RU2014112039 A	20151010	RU20140112039	20120828
RU2572967 C2	20160120	RU20140112039	20120828
SI2565236 T1	20140430	SI20110030130T	20110831
TW201313842 A	20130401	TW20120129681	20120816
TWI540187 B	20160701	TW20120129681	20120816
US2015105260 AA	20150416	US20120238233	20120828
UY34296 A1	20130405	UY20120034296	20120829
WO13030178 A1	20130307	WO2012EP66658	20120828

Priority:

EP20110179572 20110831 EP20110179572 20120828 US20110531667P 20110907
EP20120755823 20120828 US20120238233 20120828 EP20150195414 20120828
WO2012EP66658 20120828

Probable Assignee: OMYA INT AG

Assignee(s): (std): GANTENBEIN DANIEL ; OMIA INTERNEHSHNL AG ; OMYA DEVELOPMENT AG ; SCHOELKOPF JOACHIM ;
OMYA INT AG ; GANE PATRICK A C

Assignee(s): GANE PATRICK AC

Inventor(s): (std): GANTENBAJN DANIEHL ; GANTENBEIN DANIEL ; GEJN PATRIK A K ; DANIEL GANTENBEIN ; GANE
PATRICK A C ; JOACHIM SCHOELKOPF ; PATRICK A C GANE ; SCHOELKOPF JOACHIM ; SHEL KOPF
JOAKHIM

Inventor(s): PATRICK AC GANE ; GANE PATRICK AC ; GEJN PATRIK AK

Agent(s): SPRUSON AND FERGUSON; ROBIC; ESTUDIO FEDERICO VILLASECA Y CIA; ALICIA LLOREDA
RICAURTE; MAIWALD PATENTANWALTSGESELLSCHAFT MBH; GLAS HOLGER; CHWALKA BETTINA;
CARVAJAL Y ISABEL; KAWAGUTI AND PARTNERS; TIEFBRUNNER

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 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

8) Family number: 59136146 (US2016237280A) © PatBase

Title: PROCESS FOR PRODUCING A HIGH SOLIDS PIGMENT SUSPENSION COMPRISING CARBOXYMETHYLCELLULOSE-BASED DISPERSANT

Abstract: Source: US2016237280A The present invention relates to a process for preparing an aqueous suspension comprising a mineral pigment material and a depolymerized carboxymethylcellulose having a degree of carboxylation in the range from 0.2 to 2.2, a molecular weight in the range from 5000 to 40000 g/mol, and a polydispersity index in the range from 2 to 10.

Classifications:

International (IPC 8-9): C01B33/22 C01B33/26 C01F11/02 C01F11/46 C01F5/02 C08B11/08 C08J3/205 C08K3/00 C08L1/00 C09B67/06 C09B67/46 C09C C09C1/00 C09C1/02 C09C3/04 C09C3/10 C09D17/00 C09D201/00 C09D7/12 C09K3/10 D21H17/67 D21H17/69 (Advanced/Invention);

C09C1/00 C09C3/00 C09C3/04 D21H17/00 (Core/Invention);

C09C (Subclass/Invention)

CPC: C01P2004/51 C01P2006/22 D21H17/67 D21H17/69 C09D17/001 C09D17/005 C01P2004/60 C09C1/021 C01P2004/61 C01P2004/62 C09C3/041

US: 106/465

Family:

Publication number	Publication date	Application number	Application date
AU2014343922 AA	20150507	AU20140343922	20141024
CA2926303 AA	20160401	CA20142926303	20141024
CL2016000992 A1	20161118	CL20160000992	20160427
CN105683300 A	20160615	CN201480060438	20141024
CO16112401 A2	20160909	CO20160112401	20160502
DE602013016103 D1	20170223	DE201360016103T	20131104
EP2868716 A1	20150506	EP20130191479	20131104
EP2868716 B1	20170104	EP20130191479	20131104
EP3066159 A1	20160914	EP20140789815	20141024
IL245458 A0	20160630	IL20140245458	20141024
IN201627014054 A	20160819	IN201627014054	20160422
JP2017502097 T2	20170119	JP20160528197T	20141024
KR20160082589 A	20160708	KR20167014817	20141024
MX2016005848 A1	20160817	MX20160005848	20141024
SI2868716 T1	20170426	SI20130030564	20131104
TH158405 A	20161202	TH20161002533	20141024
TR201704518 T4	20170421	TR20170004518T	20131104
TW201527375 A	20150716	TW20140137580	20141030
US2016237280 AA	20160818	US20140026298	20141024
UY35805 A1	20150529	UY20140035805	20141030
WO15062978 A1	20150507	WO2014EP72808	20141024

Priority:

EP20130019147 20131104 EP20130191479 20131104 US20130901485P 20131108
WO2014EP72808 20141024 US20140026298 20141024 EP20140789815 20141024

Probable Assignee: OMYA INT AG

Assignee(s): (std): OMYA INT AG

Assignee(s): RENTSCH SAMUEL ; BURI MATTHIAS ; GANE PATRICK AC ; IPPOLITO FABIO

Inventor(s): (std): BURI MATTHIAS ; FABIO IPPOLITO ; GANE PATRICK A C ; IPPOLITO FABIO ; MATTHIAS BURI ; PATRICK A C GANE ; RENTSCH SAMUEL ; SAMUEL RENTSCH

Inventor(s): PATRICK AC GANE ; GANE PATRICK AC

Agent(s): SPRUSON AND FERGUSON; ROBIC; ESTUDIO FEDERICO VILLASECA Y CIA; CAROLINA MERCEDES DAZA MONTALVO; MUELLER DYCK MARTINA; KAWAGUTI AND PARTNERS; DENIZ CELIKEL ETLIK MAH MELTEM SOK AYBUEKE APT NO 14 16 KECIOEREN ANKARA; DENIZ CELIKEL; GLAS HOLGER

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

9) Family number: 59141875 (US2016236163A) © PatBase

Title: USE OF DEPOLYMERISED CARBOXYLATED CELLULOSES FOR DISPERSING AND GRINDING MINERAL MATERIALS

Abstract: Source: US2016236163A The present invention concerns the use of depolymerized carboxylated celluloses as a dispersing agent or grinding aid agent for aqueous suspensions of mineral materials, intended for paint formulations, plastic formulations, detergent formulations, cosmetic formulations, paper formulations or paper coating colors.

Classifications:

International (IPC 8-9): B01F17/00 B01F17/48 C08L1/02 C09C1/02 C09C3/04 (Advanced/Invention)

CPC: C09C3/041 B01F17/0028 C09C1/021 C09C1/02 C09C1/028 C09C1/3018 C09C1/3623 C09C1/402 C09C1/405 C09C1/407 C09C1/42 C09C3/04

US: 106/465

Family:

Publication number	Publication date	Application number	Application date
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CN105658316 A	20160608	CN201480056185	20141027
EP3065853 A1	20160914	EP20140805989	20141027
FR3012752 A1	20150508	FR20130060787	20131104
FR3012752 B1	20151120	FR20130060787	20131104
US2016236163 AA	20160818	US20140025920	20141027
WO15063402 A1	20150507	WO2014FR52727	20141027

Priority:

FR20130060787 20131104 WO2014FR52727 20141027

Probable Assignee: COATEX SAS

Assignee(s): (std): COATEX ; COATEX SAS

Inventor(s): (std): CHAMPAGNE CLEMENTINE ; JACQUEMET CHRISTIAN ; MONGOIN JACQUES ; SUAU JEAN MARC

Inventor(s): JACQUES MONGOIN ; JEAN MARC SUAU ; CHRISTIAN JACQUEMET ; CLEMENTINE CHAMPAGNE

Agent(s): BALMEFRESZOL LUDOVIC FRANCIS PIERRE; COATEX; FIORUCCI HELENE

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

10) Family number: 64692587 (WO17013012A1)

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Title: HIGH SOLIDS PCC WITH DEPOLYMERIZED CARBOXYLATED CELLULOSE

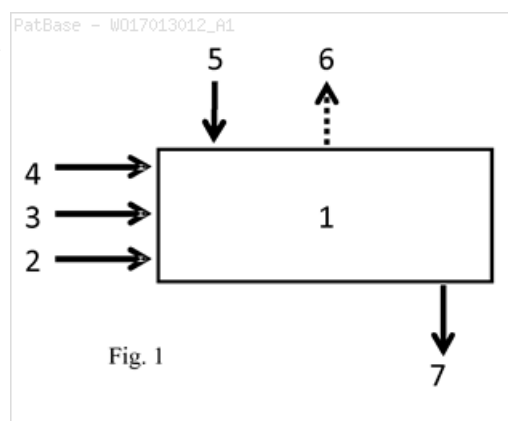
Abstract: The present invention relates to a process for producing an aqueous suspension of precipitated calcium carbonate, wherein a depolymerized carboxylated cellulose is added during lime slaking. Furthermore, the present invention relates to an aqueous suspension of calcium carbonate and a precipitated calcium carbonate obtained by said process as well as the use thereof

Classifications:

International (IPC 8-9): C01B31/24 C01F11/18 C08K3/26 C09C1/02 D21H17/67 D21H19/38 (Advanced/Invention)

CPC: C09C1/021 D21H17/675 D21H19/385 C01F11/183

C01P2004/61 C01P2006/12 C01P2006/22 C01P2004/51 C09C3/10



Family:

Publication number	Publication date	Application number	Application date
EP3118161 A1	20170118	EP20150177344	20150717
TW201708107 A	20170301	TW20160122407	20160715
WO17013012 A1	20170126	WO2016EP66896	20160715

Priority:

EP20150177344 20150717

Probable Assignee: OMYA INT AG

Assignee(s): (std): OMYA INT AG

Inventor(s): (std): JACQUEMET CHRISTIAN ; MAURER MARC ; SCHLOTTERBACH THOMAS

Agent(s): MUELLER DYCK MARTINA

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

11) Family number: 64739453 (WO17013323A1)

© PatBase

Title: PRODUCTION OF PRECIPITATED CALCIUM CARBONATE

Abstract: The present invention relates to the use of a solution of depolymerised carboxylated cellulose for preparing an aqueous solution of precipitated calcium carbonate (PCC) by slaking a material containing calcium oxide in water and then by carbonating the limewater thus obtained, said depolymerised carboxylated cellulose solution having a solids content of 25 wt percent to 40 wt percent relative to the total weight of the solution and said depolymerised carboxylated cellulose having a molecular weight of 10,000 g/mol to 40,000 g/mol.

Classifications:

International (IPC 8-9): C01F11/18 C09C1/02 C09C3/10 (Advanced/Invention)

CPC: C01F11/183 C01F11/182 C01P2004/60 C01P2004/61 C01P2004/62 C01P2006/12 C01P2006/22 C09C1/021 D21H17/675 D21H17/69 D21H17/74 D21H19/385

Family:

Publication number	Publication date	Application number	Application date
FR3038895 A1	20170120	FR20150056789	20150717
WO17013323 A1	20170126	WO2016FR51624	20160630

Priority:

FR20150056789 20150717

Probable Assignee: COATEX SAS

Assignee(s): (std): COATEX SAS

Assignee(s): COATEX

Inventor(s): (std): JACQUEMET CHRISTIAN

Inventor(s): CHRISTIAN JACQUEMET

Agent(s): COATEX; BALMEFREZOL LUDOVIC

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 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