

Search query (5): [SP]: 1. process for the preparation of an aqueous suspension comprising at least one calcium carbonate-containing material, the process comprising: a) providing a substantially dispersant-free aqueous suspension of at least one calcium carbonate-containing material, b) pre-heating the suspension of step a) to a temperature of from 40 to 95 degrees centigrade at ambient pressure, c) contacting the aqueous suspension of step a) before and/or during and/or after pre-heating step b) and/or before and/or during and/or after wet-grinding step d) with at least one base for obtaining an aqueous suspension having a pH measured at 25 degrees centigrade of ≥ 9.0 , and d) wet-grinding the pre-heated suspension of step b) or of step c) in at least one grinding step for obtaining an aqueous suspension of at least one calcium carbonate-containing material having a ratio of particles having an average particle size d80 value to particles having an average particle size d20 value [d80/d20] of ≥ 2.50 . 2. the process according to claim 1, wherein the at least one calcium carbonate-containing material provided in the aqueous suspension of step a) is dolomite and/or a natural ground calcium carbonate (ngcc), such as one or more of marble, limestone and/or chalk. 3. the process according to claim 1, wherein the aqueous suspension provided in step a) has solids content of from 5.0 wt.- percent to 60.0 wt.- percent, preferably from 10.0 wt.- percent to 55.0 wt.- percent and most preferably from 15.0 wt.- percent to 50.0 wt.- percent, based on the total weight of the aqueous suspension. 4. the process according to claim 1, wherein the aqueous suspension of step a) is adjusted in pre-heating step b) to a temperature of from 50 to 95 degrees centigrade, preferably from 60 to 90 degrees centigrade, such as about 70 degrees centigrade, at ambient temperature. 5. the process according to claim 1, wherein contacting step c) is carried out a) before and/or during pre-heating step b), preferably during pre-heating step b), and/or b) such that the obtained aqueous suspension has a pH measured at 25 degrees centigrade of from 10.0 to 13.0 and preferably from 11.0 to 12.5. 6. the process according to claim 1, wherein the at least one base in contacting step c) is a) added in an amount of 70.05 wt.- percent, preferably of ≥ 0.1 wt.- percent, more preferably of ≥ 0.2 wt.- percent and most preferably of from 0.2 to 1.0 wt.- percent, based on the total dry weight of the calcium carbonate-containing material, and/or b) at least one alkali metal hydroxide selected from the group comprising lithium hydroxide, sodium hydroxide, potassium hydroxide and mixtures thereof and/or at least one earth alkali metal hydroxide selected from the group comprising magnesium hydroxide, calcium hydroxide and mixtures thereof. 7. the process according to claim 1, wherein wet-grinding step d) is carried out at a starting temperature of from 40 to 95 degrees centigrade, preferably from 60 to 80 degrees centigrade, more preferably from 65 to 75 degrees centigrade, such as about 70 degrees centigrade. 8. the process according to claim 1, wherein the process further comprises step e) of storing the aqueous suspension obtained in wet-grinding step d) at a temperature of from 70 to 140 degrees centigrade, preferably from 75 to 140 degrees centigrade and most preferably from 80 to 95 degrees centigrade, and/or for a period of time of 75 hours, preferably 72 hours, more preferably ≥ 60 minutes, most preferably ≥ 45 minutes, such as from 5 minutes to 2 hours. 9. the process according to claim 8, wherein the aqueous suspension stored in step e) has solids content of from 5.0 wt.- percent to 60.0 wt.- percent, preferably from 10.0 wt.- percent to 55.0 wt.- percent, more preferably from 15.0 wt.- percent to 50.0 wt.- percent and most preferably from 20.0 wt.- percent to 50.0 wt.- percent, based on the total weight of the aqueous suspension. 10. the process according to claim 1, wherein the process further comprises step f) of drying or dewatering the aqueous suspension obtained in step d) or optional step e) to remove at least a portion of water to obtain a partially dewatered calcium carbonate-containing material or to obtain an essentially completely dried calcium carbonate-containing material. 11. the process according to claim 10, wherein a) the partially dewatered calcium carbonate-containing material is treated after dewatering step f) with at least one dispersing agent and rediluted to obtain an aqueous suspension comprising a dispersed calcium carbonate-containing material, and/or b) the partially dewatered calcium carbonate-containing material and/or the essentially completely dried calcium carbonate-containing material is treated before or after dewatering or drying step f) with at least one saturated aliphatic linear or branched carboxylic acid to obtain a hydrophobized calcium carbonate-containing material. 12. the process according to claim 1, wherein the at least one calcium carbonate-containing material obtained in step d) and optional step e) and/or step f) has a) a ratio of particles having an average particle size d90 value to particles having an average particle size d10 value [d90/d10] of ≥ 4.50 , and/or b) a bet specific surface are of ≥ 15.0 m²/g, preferably in the range from 1.0 to 15.0 m²/g, more preferably from 2.0 to 14.0 m²/g, and most preferably from 3.0 to 13.0 m²/g, and/or c) a lower ratio of particles having an average particle size d80 value to particles having an average particle size d20 value [d80/d20] than a calcium carbonate-containing material that is obtained by wet-grinding the same suspension of step a) to similar particle size but without pre-heating step b) and contacting step c). 13. a calcium carbonate-containing material having a ratio of particles having an average particle size d80 value to particles having an average particle size d20 value [d80/d20] of ≥ 2.50 , wherein the calcium carbonate-containing material has been obtained by a process according to claim 1. 14. the calcium carbonate-containing material according to claim 13, wherein the calcium carbonate-containing material has a) a ratio of particles having an average particle size d90 value to particles having an average particle size d10 value [d90/d10] of ≥ 4.50 , and/or b) a bet specific surface are of ≥ 15.0 m²/g, preferably in the range from 1.0 to 15.0 m²/g, more preferably from 2.0 to 14.0 m²/g, and most preferably from 3.0 to 13.0 m²/g, and/or c) a lower ratio of particles having an average particle size d80 value to particles having an average particle size d20 value [d80/d20] than a calcium carbonate-containing material that is obtained by wet-grinding the same suspension of step a) to similar particle size but without pre-heating step b) and contacting step c). 15. an adhesive, cosmetic, sealant, caulk, paint, coating or plastic comprising the calcium carbonate-containing material according to claim 13. 16. the adhesive, cosmetic, sealant, caulk, paint, coating or plastic according to claim 15, which is used in plastics applications, film applications, blown film applications, breathable film applications, biaxially oriented films, preferably polyethyleneterephthalate-, polyamide-, polyethylene- or polypropylene-comprising biaxially oriented films, granulates, pipes, technical profiles, wall panels, ceiling panels, cladding panels, wire or cable insulations, sheets, fibres, flexible packaging for industrial and consumer applications, preferably roll stocks, bags, pouches, labels, wraps, liddings, shrink sleeves and stretch films, rigid packaging for industrial and consumer applications, preferably plastic bottles, cups and containers, building and construction materials, preferably pipes and conduits, cladding and profiles, insulations, seals and gaskets, geotextiles, agriculture and horticulture materials, preferably greenhouse materials, mulch films, tunnel, silage, bale wraps, boxes and crates, transportation and automotive applications, preferably interior parts such as instrument and door panels, consoles, pillars and seating, exterior parts such as bumper fascia, fenders, tailgates, under the hood applications, preferably air ducts, air intake manifolds, radiators and cooling hoses, electrical and electronic applications, preferably cd players, dvd systems, personal computers and tv sets, notebooks, tablets, smartphones, cookers, refrigerators and freezers, washing machines, dishwashers, tools and office equipment, medical and health applications, preferably disposable caps, gowns, masks, scrub suits and shoe covers, drapes, wraps and packs, sponges, dressings and wipes, bed linen, contamination control gowns, examination gowns, lab coats, isolation gowns, diagnostic medical machinery and medical devices, personal care products, preferably absorbent hygiene products, baby diapers, feminine hygiene products and adult incontinence products, wipes, skin care products, depilatory strips, household and furniture products, preferably wood composites, decorative foils, floor coverings, flooring, kitchen wear.

Results: 9

Search history

Search TAC=(calcium carbonate and heating and pH) (Results 1177)

1:

Search TAC=(calcium carbonate and heating and pH and grinding) (Results 92)

2:

Search TAC=(calcium carbonate and heating and pH and grinding and sodium hydroxide) (Results 28)

3:

Search TAC=(calcium carbonate and heating and pH and grinding and sodium hydroxide and size) (Results 18)

4:

Search [SP]: 1. process for the preparation of an aqueous suspension comprising at least one calcium carbonate-containing material, the process comprising: a) providing a substantially dispersant-free aqueous suspension of at least one calcium carbonate-containing material, b) pre-heating the suspension of step a) to a temperature of from 40 to 95 degrees centigrade at ambient pressure, c) contacting the aqueous suspension of step a) before and/or during and/or after pre-heating step b) and/or before and/or during and/or after wet-grinding step d) with at least one base for obtaining an aqueous suspension having a pH measured at 25 degrees centigrade of ≥ 9.0 , and d) wet-grinding the pre-heated suspension of step b) or of step c) in at least one grinding step for obtaining an aqueous suspension of at least one calcium carbonate-containing material having a ratio of particles having an average particle size d80 value to particles having an average particle size d20 value [d80/d20] of ≥ 2.50 . 2. the process according to claim 1, wherein the at least one calcium carbonate-containing material provided in the aqueous suspension of step a) is dolomite and/or a natural ground calcium carbonate (ngcc), such as one or more of marble, limestone and/or chalk. 3. the process according to claim 1, wherein the aqueous suspension provided in step a) has solids content of from 5.0 wt.- percent to 60.0 wt.- percent, preferably from 10.0 wt.- percent to 55.0 wt.- percent and most preferably from 15.0 wt.- percent to 50.0 wt.- percent, based on the total weight of the aqueous suspension. 4. the process according to claim 1, wherein the aqueous suspension of step a) is adjusted in pre-heating step b) to a temperature of from 50 to 95 degrees centigrade, preferably from 60 to 90 degrees centigrade, such as about 70 degrees centigrade, at ambient temperature. 5. the process according to claim 1, wherein contacting step c) is carried out a) before and/or during pre-heating step b), preferably during pre-heating step b), and/or b) such that the obtained aqueous suspension has a pH measured at 25 degrees centigrade of from 10.0 to 13.0 and preferably from 11.0 to 12.5. 6. the process according to claim 1, wherein the at least one base in contacting step c) is a) added in an amount of 70.05 wt.- percent, preferably of ≥ 0.1 wt.- percent, more preferably of ≥ 0.2 wt.- percent and most preferably of from 0.2 to 1.0 wt.- percent, based on the total dry weight of the calcium carbonate-containing material, and/or b) at least one alkali metal hydroxide selected from the group comprising lithium hydroxide, sodium hydroxide, potassium hydroxide and mixtures thereof and/or at least one earth alkali metal hydroxide selected from the group comprising magnesium hydroxide, calcium hydroxide and mixtures thereof. 7. the process according to claim 1, wherein wet-grinding step d) is carried out at a starting temperature of from 40 to 95 degrees centigrade, preferably from 60 to 80 degrees centigrade, more preferably from 65 to 75 degrees centigrade, such as about 70 degrees centigrade. 8. the process according to claim 1, wherein the process further comprises step e) of storing the aqueous suspension obtained in wet-grinding step d) at a temperature of from 70 to 140 degrees centigrade, preferably from 75 to 140 degrees centigrade and most preferably from 80 to 95 degrees centigrade, and/or for a period of time of 75 hours, preferably 72 hours, more preferably ≥ 60 minutes, most preferably ≥ 45 minutes, such as from 5 minutes to 2 hours. 9. the process according to claim 8, wherein the aqueous suspension stored in step e) has solids content of from 5.0 wt.- percent to 60.0 wt.- percent, preferably from 10.0 wt.- percent to 55.0 wt.- percent, more preferably from 15.0 wt.- percent to 50.0 wt.- percent and most preferably from 20.0 wt.- percent to 50.0 wt.- percent, based on the total weight of the aqueous suspension. 10. the process according to claim 1, wherein the process further comprises step f) of drying or dewatering the aqueous suspension obtained in step d) or optional step e) to remove at least a portion of water to obtain a partially dewatered calcium carbonate-containing material or to obtain an essentially completely dried calcium carbonate-containing material. 11. the process according to claim 10, wherein a) the partially dewatered calcium carbonate-containing material is treated after dewatering step f) with at least one dispersing agent and rediluted to obtain an aqueous suspension comprising a dispersed calcium carbonate-containing material, and/or b) the partially dewatered calcium carbonate-containing material and/or the essentially completely dried calcium carbonate-containing material is treated before or after dewatering or drying step f) with at least one saturated aliphatic linear or branched carboxylic acid to obtain a hydrophobized calcium carbonate-containing material. 12. the process according to claim 1, wherein the at least one calcium carbonate-containing material obtained in step d) and optional step e) and/or step f) has a) a ratio of particles having an average particle size d90 value to particles having an average particle size d10 value [d90/d10] of ≥ 4.50 , and/or b) a bet specific surface are of ≥ 15.0 m²/g, preferably in the range from 1.0 to 15.0 m²/g, more preferably from 2.0 to 14.0 m²/g, and most preferably from 3.0 to 13.0 m²/g, and/or c) a lower ratio of particles having an average particle size d80 value to particles having an average particle size d20 value [d80/d20] than a calcium carbonate-containing material that is obtained by wet-grinding the same suspension of step a) to similar particle size but without pre-heating step b) and contacting step c). 13. a calcium carbonate-containing material having a ratio of particles having an average particle size d80 value to particles having an average particle size d20 value [d80/d20] of ≥ 2.50 , wherein the calcium carbonate-containing material has been obtained by a process according to claim 1. 14. the calcium carbonate-containing material according to claim 13, wherein the calcium carbonate-containing material has a) a ratio of particles having an average particle size d90 value to particles having an average particle size d10 value [d90/d10] of ≥ 4.50 , and/or b) a bet specific surface are of ≥ 15.0 m²/g, preferably in the range from 1.0 to 15.0 m²/g, more preferably from 2.0 to 14.0 m²/g, and most preferably from 3.0 to 13.0 m²/g, and/or c) a lower ratio of particles having an average particle size d80 value to particles having an average particle size d20 value [d80/d20] than a calcium carbonate-containing material that is obtained by wet-grinding the same suspension of step a) to similar particle size but without pre-heating step b) and contacting step c). 15. an adhesive, cosmetic, sealant, caulk, paint, coating or plastic comprising the calcium carbonate-containing material according to claim 13. 16. the adhesive, cosmetic, sealant, caulk, paint, coating or plastic according to claim 15, which is used in plastics applications, film applications, blown film applications, breathable film applications, biaxially oriented films, preferably polyethyleneterephthalate-, polyamide-, polyethylene- or polypropylene-comprising biaxially oriented films, granulates, pipes, technical profiles, wall panels, ceiling panels, cladding panels, wire or cable insulations, sheets, fibres, flexible packaging for industrial and consumer applications, preferably roll stocks, bags, pouches, labels, wraps, liddings, shrink sleeves and stretch films, rigid packaging for industrial and consumer applications, preferably plastic bottles, cups and containers, building and construction materials, preferably pipes and conduits, cladding and profiles, insulations, seals and gaskets, geotextiles, agriculture and horticulture materials, preferably greenhouse materials, mulch films, tunnel, silage, bale wraps, boxes and crates, transportation and automotive applications, preferably interior parts such as instrument and door panels, consoles, pillars and seating, exterior parts such as bumper fascia, fenders, tailgates, under the hood applications, preferably air ducts, air intake manifolds, radiators and cooling hoses, electrical and electronic applications, preferably cd players, dvd systems, personal computers and tv sets, notebooks, tablets, smartphones, cookers, refrigerators and freezers, washing machines, dishwashers, tools and office equipment, medical and health applications, preferably disposable caps, gowns, masks, scrub suits and shoe covers, drapes, wraps and packs, sponges, dressings and wipes, bed linen, contamination control gowns, examination gowns, lab coats, isolation gowns, diagnostic medical machinery and medical devices, personal care products, preferably absorbent hygiene products, baby diapers, feminine hygiene products and adult incontinence products, wipes, skin care products, depilatory strips, household and furniture products, preferably wood composites, decorative foils, floor coverings, flooring, kitchen wear.

is carried out at a starting temperature of from 40 to 95 degrees centigrade, preferably from 60 to 80 degrees centigrade, more preferably from 65 to 75 degrees centigrade, such as about 70 degrees centigrade. 8. the process according to claim 1, wherein the process further comprises step e) of storing the aqueous suspension obtained in wet-grinding step d) at a temperature of from 70 to 140 degrees centigrade, preferably from 75 to 140 degrees centigrade and most preferably from 80 to 95 degrees centigrade, and/or for a period of time of 75 hours, preferably 72 hours, more preferably 760 minutes, most preferably 745 minutes, such as from 5 minutes to 2 hours. 9. the process according to claim 8, wherein the aqueous suspension stored in step e) has solids content of from 5.0 wt.-% to 60.0 wt.-%, preferably from 10.0 wt.-% to 55.0 wt.-%, more preferably from 15.0 wt.-% to 50.0 wt.-% and most preferably from 20.0 wt.-% to 50.0 wt.-%, based on the total weight of the aqueous suspension. 10. the process according to claim 1, wherein the process further comprises step f) of drying or dewatering the aqueous suspension obtained in step d) or optional step e) to remove at least a portion of water to obtain a partially dewatered calcium carbonate-containing material or to obtain an essentially completely dried calcium carbonate-containing material. 11. the process according to claim 10, wherein a) the partially dewatered calcium carbonate-containing material is treated after dewatering step f) with at least one dispersing agent and rediluted to obtain an aqueous suspension comprising a dispersed calcium carbonate-containing material, and/or b) the partially dewatered calcium carbonate-containing material and/or the essentially completely dried calcium carbonate-containing material is treated before or after dewatering or drying step f) with at least one saturated aliphatic linear or branched carboxylic acid to obtain a hydrophobized calcium carbonate-containing material. 12. the process according to claim 1, wherein the at least one calcium carbonate-containing material obtained in step d) and optional step e) and/or step f) has a) a ratio of particles having an average particle size d90 value to particles having an average particle size d10 value [d90/d10] of 74.50, and/or b) a bet specific surface are of 15.0 m²/g, preferably in the range from 1.0 to 15.0 m²/g, more preferably from 2.0 to 14.0 m²/g, and most preferably from 3.0 to 13.0 m²/g, and/or c) a lower ratio of particles having an average particle size d80 value to particles having an average particle size d20 value [d80/d20] than a calcium carbonate-containing material that is obtained by wet-grinding the same suspension of step a) to similar particle size but without pre-heating step b) and contacting step c). 13. a calcium carbonate-containing material having a ratio of particles having an average particle size d80 value to particles having an average particle size d20 value [d80/d20] of 72.50, wherein the calcium carbonate-containing material has been obtained by a process according to claim 1. 14. the calcium carbonate-containing material according to claim 13, wherein the calcium carbonate-containing material has a) a ratio of particles having an average particle size d90 value to particles having an average particle size d10 value [d90/d10] of 74.50, and/or b) a bet specific surface are of 15.0 m²/g, preferably in the range from 1.0 to 15.0 m²/g, more preferably from 2.0 to 14.0 m²/g, and most preferably from 3.0 to 13.0 m²/g, and/or c) a lower ratio of particles having an average particle size d80 value to particles having an average particle size d20 value [d80/d20] than a calcium carbonate-containing material that is obtained by wet-grinding the same suspension of step a) to similar particle size but without pre-heating step b) and contacting step c). 15. an adhesive, cosmetic, sealant, caulk, paint, coating or plastic comprising the calcium carbonate-containing material according to claim 13. 16. the adhesive, cosmetic, sealant, caulk, paint, coating or plastic according to claim 15, which is used in plastics applications, film applications, blown film applications, breathable film applications, biaxially oriented films, preferably polyethyleneterephthalate-, polyamide-, polyethylene- or polypropylene-comprising biaxially oriented films, granulates, pipes, technical profiles, wall panels, ceiling panels, cladding panels, wire or cable insulations, sheets, fibres, flexible packaging for industrial and consumer applications, preferably roll stocks, bags, pouches, labels, wraps, liddings, shrink sleeves and stretch films, rigid packaging for industrial and consumer applications, preferably plastic bottles, cups and containers, building and construction materials, preferably pipes and conduits, cladding and profiles, insulations, seals and gaskets, geotextiles, agriculture and horticulture materials, preferably greenhouse materials, mulch films, tunnel, silage, bale wraps, boxes and crates, transportation and automotive applications, preferably interior parts such as instrument and door panels, consoles, pillars and seating, exterior parts such as bumper fascia, fenders, tailgates, under the hood applications, preferably air ducts, air intake manifolds, radiators and cooling hoses, electrical and electronic applications, preferably cd players, dvd systems, personal computers and tv sets, notebooks, tablets, smartphones, cookers, refrigerators and freezers, washing machines, dishwashers, tools and office equipment, medical and health applications, preferably disposable caps, gowns, masks, scrub suits and shoe covers, drapes, wraps and packs, sponges, dressings and wipes, bed linen, contamination control gowns, examination gowns, lab coats, isolation gowns, diagnostic medical machinery and medical devices, personal care products, preferably absorbent hygiene products, baby diapers, feminine hygiene products and adult incontinence products, wipes, skin care products, depilatory strips, household and furniture products, preferably wood composites, decorative foils, floor coverings, flooring, kitchen ware (Results 9)

1) Family number: 10880387 (US5215734A)

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Title: Rhombohedral calcium carbonate and accelerated heat-aging process for the production thereof

Abstract: Source: US5215734A A form of calcium carbonate having a blocky rhombohedral crystal structure and properties including a surface area of from about 3 to about 15 m²/g, an average discrete particle size of from about 0.2 to about 0.9 micron, wherein the discrete particles have an aspect ratio less than about 2:1, and a particle size distribution such that at least about 60 weight percent of the particles have a size within 50 percent of the equivalent discrete particle spherical diameter, suitable for use as a filler material in papermaking to improve the optical properties of the resulting paper, is disclosed. An accelerated heat-aging process, including embodiments thereof which utilize hydrothermal techniques, for rapidly producing this form of calcium carbonate, and a related form of calcium carbonate having a hexagonal prismatic crystal structure and the same properties, in large quantities to meet the demand of the papermaking industry, as well as a method for using these materials in papermaking, are also disclosed.

Classifications:

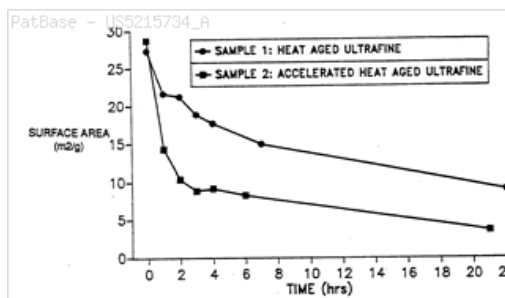
International (IPC 8-9): C01F11/18 C09C1/02 D21H17/63
D21H17/64 D21H17/67 D21H19/38 D21H21/52 (Advanced/Invention);
C09C1/02 (Core/Invention)

International (IPC 1-7): C01F11/18 C01F5/24 C01F5/34 C09C1/02
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CPC: B82Y30/00 C01F11/18 C01F11/185 C01P2004/30 C01P2004/54
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D21H21/52

European: B82Y30/00 C01F11/18 C01F11/18D D21H17/67B
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M01P6/60

US: 106/463 106/464 162/181.2 23/304 423/430 423/432



Family:

Publication number	Publication date	Application number	Application date
AU199172838 A1	19911010	AU19910072838	19910312
AU199338700 A1	19930805	AU19930038700	19930520
AU666539 B2	19960215	AU19930038700	19930520
BRP19100979 A	19911105	BR1991PI00979	19910312
CA2038009 AA	19910914	CA19912038009	19910311
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DE69122146 T2	19970403	DE19916022146T	19910305
DE69128730 D1	19980219	DE19916028730	19910305
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EP0447094 A1	19910918	EP19910301797	19910305

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EP0703193 A2	19960327	EP19950118361	19910305
EP0703193 A3	19960605	EP19950118361	19910305
EP0703193 B1	19980506	EP19950118361	19910305
EP0703315 A2	19960327	EP19950118362	19910305
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JP3417954 B2	20030616	JP19910073996	19910313
JP5319816 A2	19931203	JP19910073996	19910313
KR930001214 B1	19930222	KR19910003896	19910312
US5215734 A	19930601	US19920901440	19920619
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US5269818 A	19931214	US19900493075	19900313
US5296002 A	19940322	US19900628734	19901217

Priority:

AU19910072838 19910312 CA19912038009 19910311 FI19910001211 19910312
EP19910301797 19910305 EP19910301797 19910305 CA19912163569 19910311
US19900628737 19901217 US19920901440 19920619 US19900493075 19900313
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Designated states: BE CH DE ES FR GB IT LI NL SE

2) Family number: 12012949 (CN1161996A)

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Title: Super-fine-ground calcium carbonate for paper-making and production method thereof

Abstract: Source: CN1161996A A paper-making coating superfine-ground calcium carbonate is manufactured with natural calcite, marble, limestone and chalk as raw materials through the technology of dry crushing, wet super-fine grinding, treating for chemical stability and drying, and in its composition, the content of granularity below 2 microns occupies 90-99 percent, the whiteness is 90-98 percent, the content of calcium carbonate is greater than 98 percent, and after being dried, the product has good granularity reduction and low-dispersion viscosity.

Classifications:

International (IPC 8-9): C01F11/18 C09C3/04 (Advanced/Invention);

C01F11/00 C09C3/04 (Core/Invention)

International (IPC 1-7): C01F11/18 C09C3/04

Family:

Publication number	Publication date	Application number	Application date
CN1056166 C	20000906	CN19961002845	19960409
CN1161996 A	19971015	CN19961002845	19960409

Priority:

CN19961002845 19960409

Probable Assignee: CHINESE PULP MAKING PAPER MAKI

Assignee(s): (std): CHINESE PULP MAKING PAPER MAKI

Assignee(s): CHINESE PULP MAKING PAPER MAKING IND INST ; CHINESE PULP MAKING PAPER MAKING INDSTRY
INST ; CHINESE PULP MAKING PAPER MAKING INDUSTRY INST

Inventor(s): (std): SHANG YUNSHENG ; SONG BAOXIANG ; WU YAFU

Inventor(s): YAFU WU ; YUNSHENG SHANG ; BAOXIANG SONG

3) Family number: 28297969 (US2002155055A)

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Title: Narrow size distribution ground calcium carbonate compositions

Abstract: Source: US2002155055A Ground calcium carbonate compositions having narrow particle size distributions and a method for producing the compositions. The method involves forming a substantially dispersant-free calcium carbonate suspension, wet-grinding the suspension, and aging the suspension. The method does not require the use of classification equipment and the aging process does not require heating.

Classifications:

International (IPC 8-9): C01F11/18 (Advanced/Invention);

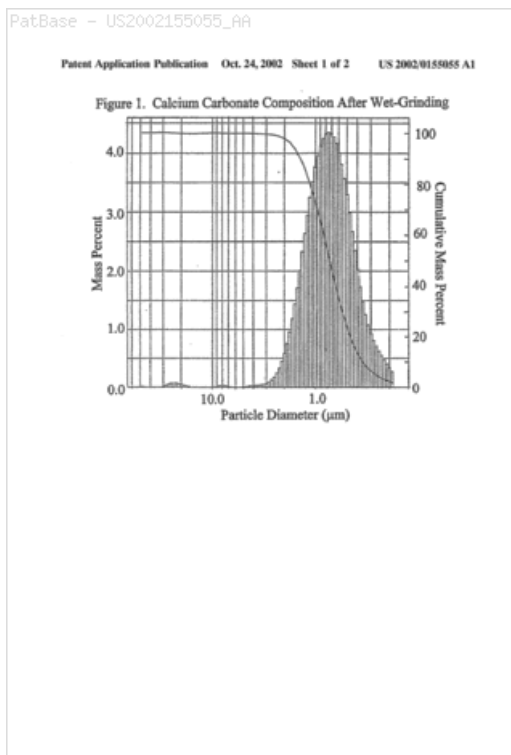
D21H17/67 (Advanced/Non-invention);

C01F11/00 (Core/Invention);

D21H17/00 (Core/Non-invention)

International (IPC 1-7): C01F11/18 C09C3/04

CPC: C01F11/185 C01P2004/52 C01P2004/61 C01P2006/60
D21H17/675
European: C01F11/18D M01P4/52 M01P4/61 M01P6/60 N21H17/67B
US: 106/464 241/15 241/17 423/165 423/430



Family:

Publication number	Publication date	Application number	Application date
US2002155055 AA	20021024	US20010839881	20010420
US6592837 BB	20030715	US20010839881	20010420

Priority:

US20010839881 20010420

Probable Assignee: CARBOMINERALS

Assignee(s): (std): CARBOMINERALS ; DENHOLM CHARLES B ; HARDY ROBERT E ; WILLIAMS H LARRY

Inventor(s): (std): DENHOLM CHARLES B ; HARDY ROBERT E ; WILLIAMS H LARRY

4) Family number: 34603841 (US2006106118A)

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Title: GRINDING METHOD

Abstract: Source: US2006106118A The invention provides a method of grinding an inorganic particulate material such as calcium carbonate or kaolin in an aqueous suspension, preferably at a solids level below about 50 percent by weight, wherein the aqueous suspension includes a sub-effective amount of a dispersing agent for the inorganic particulate material.

Classifications:

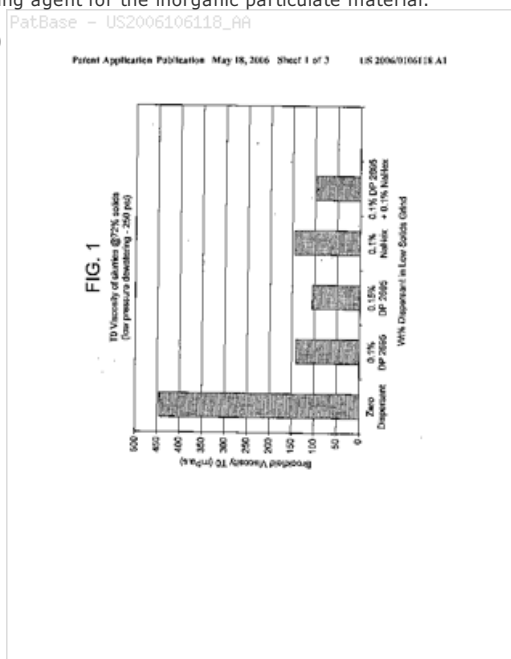
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International (IPC 1-7): B02C23/06 C01F11/18 C04B35/63 C04B35/634 C08K3/26 C08K3/34 C09C1/00 C09C1/02 C09C1/42 C09C3/00 C09C3/04 C09C3/06 C09C3/10 C09D17/00 C09D7/12 C09K3/10 D21H17/67 D21H19/38

CPC: C01P2004/61 C01P2004/62 C01P2006/60 C04B35/6261 C01F11/185 C01P2004/52 C01P2006/22 C04B33/14 C04B33/36 C04B35/62625 C04B35/6263 C04B35/63 C04B35/632 C04B35/63424 C04B2235/3208 C04B2235/349 C04B2235/402 C04B2235/447 C04B2235/528 C04B2235/5445 C04B2235/5463 C08K3/346 C09C1/021 C09C1/42 C09C3/006 C09C3/041 C09D5/34 C09D7/1216 C09D17/004 D21H17/69 D21H19/44

European: C01F11/18D C04B33/14 C04B33/36 C04B35/626A10 C04B35/626A10B C04B35/626A6 C04B35/63 C04B35/632 C04B35/634B10 C09C1/02B C09C1/42 C09C3/00P C09C3/04B C09D17/00J C09D5/34 C09D7/12D2 D21H17/69 D21H19/44 M01P4/52 M01P6/22 M04B235/32D4 M04B235/34H M04B235/40E M04B235/44P M04B235/52H M04B235/54D6 M04B235/54F M08K3/34B

US: 106/400 106/464 106/465 241/15 241/15S 241/16 241/16P 241/16S 241/29 241/5 241/5S 252/387 516/78 516/78P



Family:

Publication number	Publication date	Application number	Application date
AT350423 E	20070115	AT20030750912T	20030912

AU2003269130 AA	20040408	AU20030269130	20030912
BRPI0314293 A	20050726	BR2003PI14293	20030912
CA2494195 AA	20050209	CA20032494195	20030912
CN1312231 C	20070425	CN20038022021	20030912
CN1681895 A	20051012	CN20038022021	20030912
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DE60310964 T2	20070830	DE20036010964T	20030912
DK1546268 T3	20070514	DK20030750912T	20030912
EP1546268 A1	20050629	EP20030750912	20030912
EP1546268 B1	20070103	EP20030750912	20030912
ES2277107 T3	20070701	ES20030750912T	20030912
GB200221632 A0	20021030	GB20020021632	20020917
IN00098MN2005 A	20051104	IN2005MN00098	20050131
IN01087MN2006 A	20070629	IN2006MN01087	20060911
IN202296 B	20070413	IN2005MN00098	20050331
JP2005539124 T2	20051222	JP20040537269T	20030912
US2006106118 AA	20060518	US20030523105	20030912
US2010219269 AA	20100902	US20100728917	20100322
US7938346 BB	20110510	US20100728917	20100322
WO04026973 A1	20040401	WO2003GB03970	20030912

Priority:

AR19990004110 19990823 GB20020021632 20020917 WO2003GB03970 20030912
US20050523105 20051123 US20100728917 20100322 US20030523105 20030912

Probable Assignee: IMERYS MINERALS LTD

Assignee(s): (std): IMERYS MINERALS LTD ; JARVIS NIGEL V ; PAYTON DESMOND CHARLES ; SKUSE DAVID ROBERT ; HUSBAND JOHN CLAUDE

Assignee(s): IMERYS MINERALS LIMITED

Inventor(s): (std): CHARLES JARVIS NIGEL V HUSBAND ; CHARLES PAYTON DESMOND ; CLAUDE HUSBAND JOHN ; HUSBAND CLAUDE ; HUSBAND JOHN C ; HUSBAND JOHN CLAUDE ; JARVIS NIGEL V ; JARVIS V ; PAYTON CHARLES ; PAYTON CHARLES D ; PAYTON CHARLES DESMOND ; PAYTON DESMOND CHARLES ; ROBERT SKUSE DAVID ; SKUSE DAVID R ; SKUSE DAVID ROBERT ; SKUSE ROBERT

Inventor(s): SKUSE DAVID ; JOHN CLAUDE HUSBAND ; NIGEL V JARVIS ; JARVIS NIGEL V HUSBAND JOHN CLAUDE ; SKUSE DAVID ROB ; JARVIS NIGEL ; HUSBAND J CLAUDE ; HUSBAND JOHN ; DAVID ROBERT SKUSE ; DESMOND CHARLES PAYTON

Agent(s): SIM AND MCBURNEY; FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER, LLP; FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER LLP

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

5) Family number: 34322064 (US2008308010A)

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Title: ECONOMICAL PROCESS OF MANUFACTURING VERY FINE CO-GROUND CALCIUM CARBONATE MATERIAL OF THE GCC AND PCC TYPE, OBTAINED PRODUCTS AND THEIR USES

Abstract: Source: US2008308010A An object of the present invention is to provide a process to obtain a calcium carbonate material comprising GCC and PCC, presenting a fraction of particles finer than 1 μm of greater than 80 percent, preferably of greater than 85 percent, more preferably of greater than 90 percent, and even more preferably of greater than 95 percent, and a specific surface area of less than 25 m^2/g , in a cost efficient manner, wherein GCC and PCC are co-ground, possibly with at least another mineral material. An other object of the present invention lies in the co-ground calcium carbonate material in the form of an aqueous suspension and in the form of a dry product. An other object of the present invention lies in the uses of such products in any sector making use of mineral material, and notably in the paper, paint and plastic industries.

Classifications:

International (IPC 8-9): C09C1/02 C09C3/04 D21H19/38 B01F3/12 B02C19/00 B32B5/16 C01F C01F11/18 C09C1/62 (Advanced/Invention); C01F11/18 C09C1/02 C09C3/04 D21H19/38 D21H21/52 (Advanced/Non-invention); B01F3/12 B02C19/00 B32B5/16 C01F11/00 C09C1/02 C09C1/62 C09C3/04 D21H19/00 (Core/Invention); C01F C09C D21H (Subclass/Invention)

International (IPC 1-7): C01F11/18 C09C1/09 C09C3/04 D21H19/38
CPC: Y10T428/2982 D21H19/385 D21H21/52 C09C1/021 C01F11/18 C01F11/185 C01P2004/51 C01P2004/61 C01P2004/62 C01P2006/12 C01P2006/22

European: C01F11/18 C01F11/18D C09C1/02B D21H19/38B M01P4/51 M01P4/61 M01P4/62 M01P6/12 M01P6/22 M01P6/30 N21H21/52

US: 106/450 106/464 241/16 241/21 241/24.1 241/24.100S 423/430 423/430S 428/402 428/402S 516/78 516/78S

530907 - TWI520907_B

七、指定代表圖：

(一)本案指定代表圖為：第(無)圖。

(二)本代表圖之元件符號簡單說明：

(無)

八、本案若有化學式時，請揭示最能顯示發明特徵的化學式：

(無)

Publication number	Publication date	Application number	Application date
AU2006290427 AA	20070322	AU20060290427	20060912
AU2006290427 BB	20130613	AU20060290427	20060912
BRPI0615945 A2	20110531	BR2006PI15945	20060912
CA2622799 AA	20080314	CA20062622799	20060912
CA2622799 C	20121113	CA20062622799	20060912
CL2006002456 A1	20070608	CL20060002456	20060915
CL47779 B	20110701	CL20060002456	20060915
CN101282909 A	20081008	CN200680037567	20060912
CN101282909 B	20130123	CN200680037567	20060912
EP1764345 A1	20070321	EP20050077111	20050916
EP1940741 A1	20080709	EP20060831537	20060912
EP2786966 A2	20141008	EP20130005684	20060912
EP2786966 A3	20141203	EP20130005684	20060912
IL190192 A0	20081103	IL20060190192	20060912
IL190192 A1	20161031	IL20060190192	20060912
IN00629MN2008 A	20080509	IN2008MN00629	20080402
JP2009508792 T2	20090305	JP20080530656T	20060912
KR101307946 B1	20130913	KR20087009118	20060912
KR20080047472 A	20080528	KR20087009118	20060912
MA29918 B1	20081103	MA20080030835	20080414
NO20081694 A	20080613	NO20080001694	20080407
NZ566942 A	20110429	NZ20060566942	20060912
RU2008114843 A	20091027	RU20080114843	20060912
RU2438979 C2	20120110	RU20080114843	20060912
TW200724491 A	20070701	TW20060133987	20060914
TWI520907 B	20160211	TW20060133987	20060914
UA96927 C2	20111226	UA20080003389	20060912
US2008308010 AA	20081218	US20060992116	20060912
US2009044725 AA	20090219	US20080220592	20080725
US8002887 BB	20110823	US20080220592	20080725
WO07031869 A1	20070322	WO2006IB02649	20060912
ZA200803224 A	20100224	ZA20080003224	20060912

Priority:

EP20050077111 20050916 EP20060831537 20060912 US20080992116 20080623
US20080220592 20080725 US20060992116 20060912 EP20130005684 20060912
WO2006IB02649 20060912

Probable Assignee: OMYA INT AG

Assignee(s): (std): OMIA DEV AG ; OMYA DEVELOPMENT AG ; OMYA INT AG ; POHL MICHAEL ; RAINER CHRISTIAN

Assignee(s): OMYA INT N AG ; OMIA DEVELOPMENT AG

Inventor(s): (std): MICHAEL POHL ; POHL MICHAEL ; POL MIKHEL ; CHRISTIAN RAINER ; RAINER CHRISTIAN ; RAJNER KRISTIAN

Inventor(s): CHRISTIAN RAINER MICHAEL POHL ; POL' MIKHEL'

Agent(s): SPRUSON AND FERGUSON; ROBIC; VILLASECA; RICHEBOURG MICHEL FRANCOIS ET AL; RICHEBOURG MICHEL FRANCOIS; REINHOLD COHN AND PARTNERS; ONO MAKOTO; TSUBOKURA MICHIAKI; KANAYAMA MASATAKA; KAWAGUTI AND PARTNERS; OSAKI KATSUMASA; CRAIG J ARNOLD, AMSTER ROTHSTEIN AND EBESNSTEIN; CRAIG J ARNOLD AMSTER ROTHSTEIN AND EBESNSTEIN; AMSTER ROTHSTEIN AND EBENSTEIN 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 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 MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

6) Family number: 34322065 (US2010074827A)

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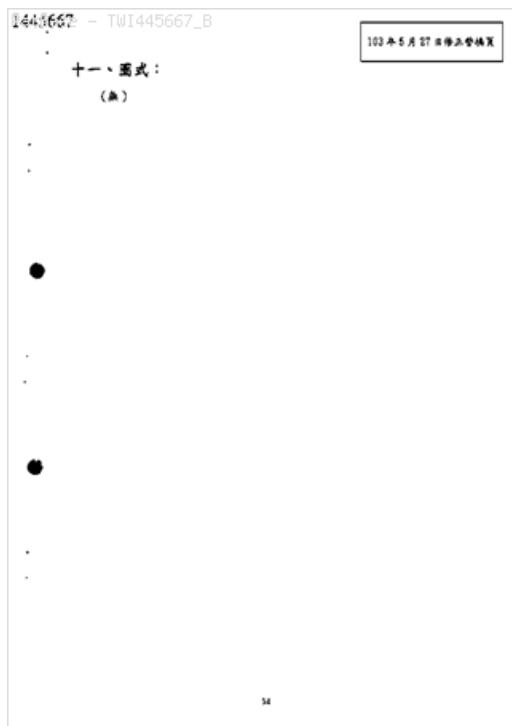
Title: PROCESS OF PREPARING MINERAL MATERIAL WITH PARTICULAR CERIA-CONTAINING ZIRCONIUM OXIDE GRINDING BEADS, OBTAINED PRODUCTS AND THEIR USES

Abstract: Source: US2010074827A An object of the present invention is to provide a process to grind at least one mineral material in the presence of ceria (CeO₂)-containing zirconium oxide grinding beads having a specific ceria content (of between 14 and 20 percent by weight relative to the total weight of said bead, preferably of between 15 and 18 percent, and most preferably of approximately 16 percent), and a specific average grain size (of less than 1 micro m, preferably of less than 0.5 micro m, and most preferably of less than 0.3 micro m), wherein such beads are more resistant to wear than conventional beads of the prior art. An other object of the present invention lies in the ground material in the form of an aqueous suspension and in the form of a dry product. An other object of the present invention lies in the uses of such products in any sector making use of mineral materials, and notably in the paper, paint and plastic industries.

Classifications:

International (IPC 8-9): B02C17/20 C09C1/02 C09C1/36 C09C1/40 C09C3/04 B02C17/00 C01B15/04 C01F C01F11/18 C01F17/00 C01F5/24 C01G25/02 C01G27/02 C04B35/486 C09C1/28 C09C1/42 (Advanced/Invention); B02C17/20 C01F11/18 C09C1/02 C09C3/04 D21H19/38 (Advanced/Non-invention); B02C17/00 C01F11/00 C09C1/02 C09C1/28 C09C1/36 C09C1/40 C09C3/04 (Core/Invention); B02C C01F C09C (Subclass/Invention)
International (IPC 1-7): B02C17/20 C01F 11/18 C01F11/18 C09C1/02 C09C1/36 C09C1/40 C09C3/04 C09C3/00 C09C3/40
CPC: C01F11/185 C01P2004/62 C01P2006/12 C01P2006/60 C04B35/486 C04B2235/3229 C04B2235/785 C09C1/021 C09C1/28 C09C1/3623 C09C1/407 C09C1/42 D21H19/385 C09C1/0081 C09C3/041

European: C01F11/18D C04B35/486 C09C1/02B C09C1/28 C09C1/36D4B C09C1/40F C09C1/42 D21H19/38B M01P4/62 M01P6/12 M01P6/60 M04B235/32G8 M04B235/78G
US: 106/450 106/464 423/430 423/430P 423/583 423/594.12 423/608



Family:

Publication number	Publication date	Application number	Application date
AU2006290426 AA	20070322	AU20060290426	20060912
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CL2010000444 A1	20100903	CL20100000444	20100504
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CN101291879 A	20081022	CN200680039242	20060912
CN101291879 B	20120829	CN200680039242	20060912
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EP2786964 A2	20141008	EP20130005602	20060912
EP2786964 A3	20141029	EP20130005602	20060912
IL190190 A0	20081103	IL20060190190	20060912
IL190190 A1	20161031	IL20060190190	20060912
IN00628MN2008 A	20080509	IN2008MN00628	20080402
JP2009508791 T2	20090305	JP20080530655T	20060912
JP5296542 B2	20130925	JP20080530655T	20060912
KR101337751 B1	20131206	KR20087009162	20060912
KR20080047475 A	20080528	KR20087009162	20060912
MA29862 B1	20081003	MA20080030837	20080414
NO20081710 A	20080529	NO20080001710	20080407
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RU2008114845 A	20091027	RU20080114845	20060912
RU2432376 C2	20111027	RU20080114845	20060912
TH90365 A	20080710	TH20061004549	20060915
TW200726719 A	20070716	TW20060133985	20060914
TWI445667 B	20140721	TW20060133985	20060914
UA97788 C2	20120326	UA20080003391	20060912
US2010074827 AA	20100325	US20060992115	20060912
US2014041550 AA	20140213	US20130060701	20131023
US8591853 BB	20131126	US20060992115	20060912
US8647597 BA	20140211	US20130060701	20131023
VN12056 A1	20131225	VN20080000911	20060912
WO07031868 A1	20070322	WO2006IB02647	20060912
ZA200803222 A	20091125	ZA20080003222	20060912

Priority:

EP20050077112 20050916 EP20060795547 20060912 WO2006IB02647 20060912
US20080992115 20080623 US20130060701 20131023 EP20130005602 20060912

Probable Assignee: OMYA INT AG

Assignee(s): (std): OMYA DEVELOPMENT AG ; OMYA INT AG ; POHL MICHAEL ; RAINER CHRISTIAN ; OMIA DEV AG

Assignee(s): OMIA DEVELOPMENT AG

Inventor(s): (std): RAINER CHRISTIAN ; RAJNER KRISTIAN ; REINER CHRISTIAN ; MICHAEL POHL ; CHRISTIAN RAINER ; POHL MICHAEL ; POL MIKHEL

Inventor(s): POL' MIKHEL' ; CHRISTIAN RAINER MICHAEL POHL

Agent(s): SPRUSON AND FERGUSON; ROBIC; VILLASECA; RICHEBOURG MICHEL FRANCOIS ET AL; RICHEBOURG MICHEL FRANCOIS; REINHOLD COHN AND PARTNERS; ONO MAKOTO; TSUBOKURA MICHIAKI;

Designated states: KANAYAMA MASATAKA; KAWAGUTI AND PARTNERS; OSAKI KATSUMASA; AMSTER ROTHSTEIN AND EBENSTEIN LLP
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TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

7) Family number: 54861304 (US2015040800A)

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Title: DISPERSED CALCIUM CARBONATE CONTAINING MATERIAL FOR AN IMPROVED STABILITY UNDER ALKALINE CONDITIONS

Abstract: Source: US2015040800A The present invention relates to a method for preparing an aqueous calcium carbonate containing suspension, a suspension comprising a calcium carbonate containing material obtainable by said method as well as a calcium carbonate containing material obtainable by drying said suspension and to the use of the suspension or calcium carbonate containing material in paper, paper coating, plastic and/or paint applications and to the use of the suspension for stabilizing the rheology of a sodium silicate and/or sodium hydroxide containing coating formulations for paper applications.

Classifications:

International (IPC 8-9): B01D3/12 C01F11/18 C07F9/38 C08K3/26 C08K5/5317 C09C1/02 C09C3/08 C09J11/04 D21H17/10 D21H17/63 D21H17/64 D21H17/66 D21H17/69 D21H19/38 (Advanced/Invention); C01F11/00 C08K5/00 C09C1/00 D21H17/00 D21H19/00 (Core/Invention)

CPC: C08K5/5317 C08K3/26 D21H17/10 C08K2003/265 D21H17/66 C01F11/185 C01P2004/51 C01P2004/61 C01P2006/22 C09C1/021 D21H17/63 D21H17/64 D21H19/385

US: 1/1 106/462 162/181.2 524/123

Family:

Publication number	Publication date	Application number	Application date
CA2867000 AA	20140910	CA20132867000	20130326
CA2867000 C	20170523	CA20132867000	20130326
CN104203827 A	20141210	CN201380017099	20130326
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EP2644568 A1	20131002	EP20120162765	20120330
EP2644568 B1	20161130	EP20120162765	20120330
EP2830997 A1	20150204	EP20130714887	20130326
ES2617571 T3	20170619	ES20120162765T	20120330
HR20170309 T1	20170421	HR20170000309	20170223
IN01863MN2014 A	20150703	IN2014MN01863	20140920
LT2644568 T	20170612	LT20120162765T	20120330
RU2014143826 A	20160527	RU20140143826	20130326
RU2591983 C2	20160720	RU20140143826	20130326
SI2644568 T1	20170331	SI20120030872	20120330
TR201702917 T4	20170321	TR20170002917T	20120330
TW201338842 A	20131001	TW20130110419	20130325
TWI586421 B	20170611	TW20130110419	20130325
US2015040800 AA	20150212	US20130381801	20130326
US9394428 BB	20160719	US20130381801	20130326
WO13144137 A1	20131003	WO2013EP56390	20130326

Priority:

EP20120016276 20120330 EP20120162765 20120330 US20120618883P 20120402
WO2013EP56390 20130326 EP20130714887 20130326 US20130381801 20130326

Probable Assignee: OMYA INT AG

Assignee(s): (std): OMYA DEVELOPMENT AG ; OMYA INT AG ; OMIA INTERNESHNL AG

Assignee(s): OMYA INT AGBASLERSTRASSE 42CH-4665OFTRINGENCH ; GANE PATRICK AC ; GANTENBEIN DANIEL

Inventor(s): (std): GANE PATRICK A C ; GANTENBEIN DANIEL ; GANTENBAJN DANIEL ; GEJN PATRIK A K

Inventor(s): GEJN PATRIK AK ; PATRICK A C GANE ; GANTENBEIN DANIELCH ; GANE PATRICK AC ; GANE PATRICK ACCH ; DANIEL GANTENBEIN

Agent(s): ROBIC; MAIWALD PATENTANWALTS GMBH; MUELLER DYCK MARTINA; CARVAJAL Y ISABEL; DENIZ CELIKEL ETLIK MAH MELTEM SOK AYBUEKE APT NO 14 16 KECIOEREN ANKARA; DENIZ CELIKEL; AMSTER ROTHSTEIN AND EBENSTEIN LLP; JUNGE MELANIE

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

8) Family number: 59223713 (US2016264785A)

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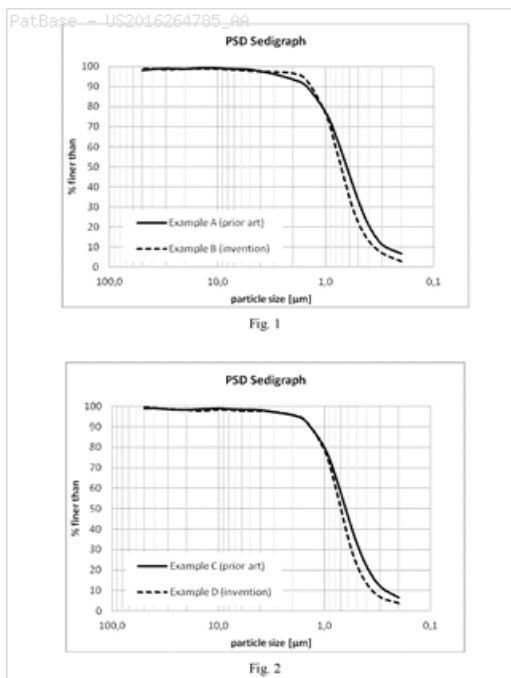
Title: PROCESS FOR IMPROVING THE PARTICLE SIZE DISTRIBUTION OF A CALCIUM CARBONATE-CONTAINING MATERIAL

Abstract: Source: US2016264785A The present invention relates to a process for the preparation of an aqueous suspension comprising at least one calcium carbonate-containing material. The invention further relates to calcium carbonate-containing material having a ratio of particles having an average particle size d80 value to particles having an average particle size d20 value [d80/d20] of ≥ 2.50 and the use of the calcium carbonate-containing material in paper and board applications, in cosmetics, in caulks and sealants, in paints and coatings, or in plastics applications.

Classifications:

International (IPC 8-9): C01B31/24 C01F11/18 C04B14/28 C08K3/26 C09C1/00 C09C1/02 C09C3/04 C09D17/00 (Advanced/Invention)

CPC: C01P2004/51 C01P2004/52 C01P2004/61 C09D17/004



Family:

Publication number	Publication date	Application number	Application date
AR098327 AA	20160526	AR2014P104175	20141106
AU2014345744 AA	20150514	AU20140345744	20141030
AU2014345744 BB	20161222	AU20140345744	20141030
CA2927899 AA	20160418	CA20142927899	20141030
CL2016001005 A1	20161118	CL20160001005	20160428
CN105849048 A	20160810	CN201480061013	20141030
CO16118417 A2	20160930	CO20160118417	20160506
EP2871159 A1	20150513	EP20130192156	20131108
EP3066053 A1	20160914	EP20140790643	20141030
IN201627014072 A	20160819	IN201627014072	20160422
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US2016264785 AA	20160915	US20140030422	20141030
WO15067522 A1	20150514	WO2014EP73356	20141030

Priority:

EP20130192156 20131108 EP20140790643 20141030 US20130904541P 20131115
WO2014EP73356 20141030 US20140030422 20141030

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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: 66205344 (WO17108760A1)

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Title: METAL OXIDES AND/OR HYDRATES THEREOF FOR STABILISING AN AQUEOUS PREPARATION AGAINST MICROBIAL GROWTH

Abstract: The invention relates to a process for stabilising an aqueous preparation against microbial growth, the aqueous preparation stabilised against microbial growth as well as the use of a source of at least one metal oxide and/or its hydrated form for reducing the amount of an antimicrobial agent against at least one strain of bacteria and/or at least one strain of yeast and/or at least one strain of mould in an aqueous preparation, the use of a composition comprising at least one antimicrobial agent and a source of at least one metal oxide and/or its hydrated form as an antimicrobial composition in an aqueous preparation, the use of magnesium oxide, magnesium hydroxide, calcium oxide, calcium hydroxide, half burnt dolomite, burnt dolomite, beryllium oxide, beryllium hydroxide, strontium oxide, strontium hydroxide, barium oxide, barium hydroxide, and mixtures thereof for increasing the pH of an aqueous preparation to a pH of above 8 and the use of an aqueous preparation stabilised against microbial growth in paper, plastics, polymer compositions, paint, coatings, concrete and/or agriculture applications.

Classifications:

International (IPC 8-9): A01N31/08 A01N35/08 A01N43/40 A01N43/80 A01N59/00 A01N59/06 A01N59/16 A01P1/00 D21H21/36 (Advanced/Invention)

CPC: A01N43/80 A01N59/06 A01N59/16 D21H21/36 A01N59/00

Family:

Publication number	Publication date	Application number	Application date
EP3183969 A1	20170628	EP20150202030	20151222
WO17108760 A1	20170629	WO2016EP81881	20161220

Priority:

EP20150202030 20151222 US20150272157P 20151229

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

Inventor(s): (std): GLAUBITZ JOACHIM ; URWYLER SIMON ; ZUMSTEG ANITA

Agent(s): BOOS MELANIE; 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 DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU
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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