



(51) International Patent Classification:

C09C 1/02 (2006.01) *D21H 17/00* (2006.01)
C09C 3/04 (2006.01)

(21) International Application Number:

PCT/EP2011/072768

(22) International Filing Date:

14 December 2011 (14.12.2011)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

10195360.2	16 December 2010 (16.12.2010)	EP
61/425,339	21 December 2010 (21.12.2010)	US
61/452,981	15 March 2011 (15.03.2011)	US
61/523,927	16 August 2011 (16.08.2011)	US

(71) Applicant (for all designated States except US): **OMYA DEVELOPMENT AG** [CH/CH]; Baslerstrasse 42, CH-4665 Oftringen (CH).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **GANE, Patrick Arthur Charles** [GB/CH]; Studenweg 8, CH-4852 Rothrist (CH). **BERGSET, Olav** [NO/FR]; 6 Rue de Huningue, F-68870 Bartenheim (FR). **SAUNDERS, George** [US/US]; 1946 Forest Dale Rd., Brandon, Vermont 05733 (US). **QIU, Xueping** [US/US]; 22 Laverne Drive, Rutland, Ver-

mont 05701 (US). **VARNEY, Dan** [US/US]; 48 Oak Street, Proctor, Vermont 05765 (US).

(74) Agent: **PLOUGMANN & VINGTOFT A/S**; Sundkrogs-gade 9, Post Office Box 831, DK-2100 Copenhagen Ø (DK).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: MINERAL COMPOSITION, ESPECIALLY FOR USE IN PAPER FILLERS AND PAPER OR PLASTIC COATINGS

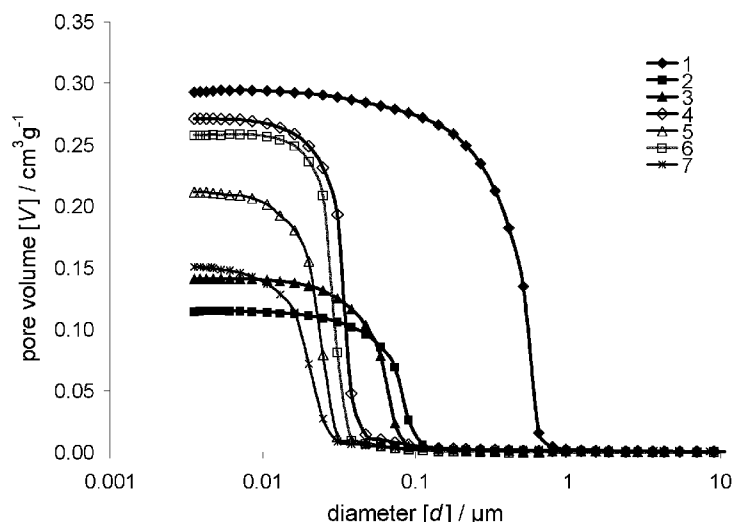


Fig. 2

(57) Abstract: A mineral composition comprising mineral particles, said mineral particles, when in a densely compacted bed form, having a volume defined median pore diameter from 0.01 to 0.04 micrometre, and having an intruded total specific void volume of 0.1-0.3 cm³/g. A specific advantage of this composition is that it as a component in a coating, allows the passage of ink solvent into the base paper while retaining the ink molecules on the surface.

Declarations under Rule 4.17:

— *of inventorship (Rule 4.17(iv))*

Published:

— *with international search report (Art. 21(3))*