

(51) International Patent Classification:  
C03C 17/36 (2006.01)(21) International Application Number:  
PCT/EP2014/061115(22) International Filing Date:  
28 May 2014 (28.05.2014)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

|              |                               |    |
|--------------|-------------------------------|----|
| BE 2013/0384 | 30 May 2013 (30.05.2013)      | BE |
| BE 2013/0385 | 30 May 2013 (30.05.2013)      | BE |
| BE 2013/0386 | 30 May 2013 (30.05.2013)      | BE |
| 13197207.7   | 13 December 2013 (13.12.2013) | EP |

(71) Applicants: **AGC GLASS EUROPE** [BE/BE]; Avenue Jean Monnet, 4, B-1348 Louvain-La-Neuve (BE). **AGC GLASS COMPANY NORTH AMERICA** [—/US]; 11175 Cicero Drive, Suite 400, Georgia, Alpharetta, Georgia 30022-1167 (US).

(72) Inventors: **ROQUINY, Philippe**; 790 Birdie Drive, Abingdon, Virginia 24211 (US). **KAPPERTZ, Olivier**; James-Franck-Ring 23, 37077 Göttingen (DE). **MÖNNEKES, Jörg**; Heinrich-Heine-Straße 4, 37671 Hörter (DE). **LIN, Yuping**; 3657 Crest Road, Kingsport, Tennessee 37664 (US). **MAHIEU, Stijn**; Vijverstraat, 32, B-9920 Lovendegem (BE). **BAUDOUIN, Anne-Christine**; Place de l'Equerre, 37, B-1348 Louvain-La-Neuve (BE).

(74) Agent: **LARANGÉ, Françoise**; AGC Glass Europe, Technology Center, IP Department, Rue Louis Blériot, 12, B-6041 Gosselies (BE).

(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, BN, 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, IR, IS, JP, KE, KG, 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, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, 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, 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, KM, ML, MR, NE, SN, TD, TG).

**Declarations under Rule 4.17:**

— of inventorship (Rule 4.17(iv))

**Published:**

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

— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(88) Date of publication of the international search report:

5 February 2015

(54) Title: SOLAR CONTROL GLAZING

(57) Abstract: The invention relates to heat treatable solar control glazing showing low- emissivity properties, and possibly also anti-solar properties and methods to manufacture such glazing. They comprise a transparent substrate coated with a stack of thin layers comprising n functional layer(s) reflecting infrared radiation and n+1 dielectric layers, with  $n \geq 1$ , each functional layer being surrounded by dielectric layers. At least one dielectric layer above a functional layer comprises a layer consisting essentially of silicon oxide, preferably deposited by PECVD, and the stack comprises a barrier layer based on zinc oxide above and in direct contact with any functional layer which has a silicon oxide layer in the dielectric layer directly above it.

