

(19) World Intellectual Property
Organization
International Bureau



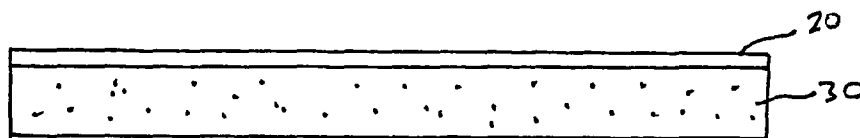
(43) International Publication Date
3 February 2005 (03.02.2005)

PCT

(10) International Publication Number
WO 2005/010596 A2

- (51) International Patent Classification⁷: **G02F** **SCHAEFFLER, Robert, G.** [US/US]; 1554 Mount Zoar Road, Pine City, NY 14871 (US).
- (21) International Application Number: PCT/US2004/019914 (74) Agent: **ABLE, Kevin, M.**; Corning Incorporated, Patent Department, SP-TI-3-1, Corning, NY 14831 (US).
- (22) International Filing Date: 21 June 2004 (21.06.2004) (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 10/613,972 3 July 2003 (03.07.2003) US
- (71) Applicant (for all designated States except US): **CORNING INCORPORATED** [US/US]; 1 Riverfront Plaza, Corning, NY 14831 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **COPPOLA, Frank, T.** [US/US]; 363 County Route 178, Elmira, NY 14903 (US). **LAPP, Josef, C.** [US/US]; 10510 Cheese Factory Road, Corning, NY 14830 (US). **MASHEWSKE, Monica, J.** [US/US]; 18 Landau Drive, Horseheads, NY 14845 (US). **TAMMARO, David, A.** [US/US]; 181 Hamilton Circle, Painted Post, NY 14870 (US). **BOCKO, Peter, L.** [US/US]; 9553 Swan Lane, Painted Post, NY 14870 (US). **EDWARDS, Victoria, A.** [US/US]; 83 Talarico Road, Horseheads, NY 14845 (US). **GILLBERG, Gunilla, E.** [US/US]; 7 Pond View, Painted Post, NY 14870 (US).
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
— without international search report and to be republished upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: A GLASS PRODUCT FOR USE IN ULTRA-THIN GLASS DISPLAY APPLICATIONS



(57) Abstract: The present invention is directed to a substrate product for use in the manufacture of active matrix liquid crystal display panels. The product includes a display substrate suitable for use as a display panel. The display substrate has a thickness less than or equal to 0.4mm, a composition that is substantially alkali free, and a surface smoothness that allows the direct formation of thin-film transistors thereon without a prior processing step of polishing and/or grinding. The product also includes at least one support substrate removably attached to the display substrate.

WO 2005/010596 A2