(19) World Intellectual Property Organization

International Bureau



| 1888 | 1888 | 1888 | 1888 | 1888 | 1888 | 1888 | 1888 | 1888 | 1888 | 1888 | 1888 | 1888 | 1888 | 1888 | 188

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

PCT

(10) International Publication Number WO 2005/010598 A3

(51) International Patent Classification⁷: G02B 26/00

(21) International Application Number:

PCT/US2004/023843

(22) International Filing Date: 23 July 2004 (23.07.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/481,133 24 July 2003 (24.07.2003) US 60/481,320 2 September 2003 (02.09.2003) US

- (71) Applicant (for all designated States except US): E INK CORPORATION [US/US]; 733 Concord Avenue, Cambridge, MA 02138-1002 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): HONEYMAN, Charles, H. [CA/US]; 19 Lee Hill Road, Roslindale, MA 02131 (US). DOSHI, Harit [IN/US]; 708 Wellman Avenue, North Chelmsford, MA 01863 (US). SOHN, Seungman [KR/US]; 3-5 Deer Path, Maynard, MA 01754 (US). CHEN, Eva [US/US]; Apartment No. 1C, 348 Franklin Street, Cambridge, MA 02139 (US). LECAIN, Richard, D. [US/US]; Apartment No. 46, 270 Highland Avenue, Somerville, MA 02143 (US). PANG, Simon

[CA/US]; Apartment No. 12, 405 Great Road, Acton, MA 01720 (US). **DUTHALER, Gregg, M.** [US/US]; 40 Dunster Road, Needham, MA 02494 (US).

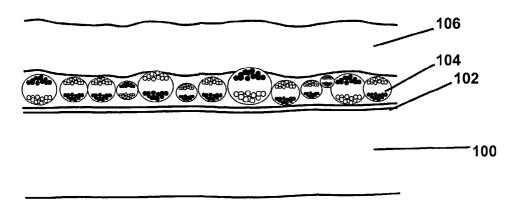
- (74) Agent: COLE, David, John; E Ink Corporation, 733 Concord Avenue, Cambridge, MA 02138-1002 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, 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.
- (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).

Declaration under Rule 4.17:

as to applicant's entitlement to apply for and be granted a
patent (Rule 4.17(ii)) for the following designation US

[Continued on next page]

(54) Title: ELECTRO-OPTIC DISPLAYS



(57) **Abstract:** An electro-optic display comprises first and second substrates and a lamination adhesive layer and a layer of an electro-optic material disposed between the first and second substrates, the lamination adhesive layer having a thickness of from 14 to 25 mm.



WO 2005/010598 A3



Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

 $\textbf{(88)} \ \ \textbf{Date of publication of the international search report:}$

12 May 2005

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.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/23843

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : G02B 26/00 US CL : 359/296; 428/40.1, 41.8, 332, 343 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S.:	
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched	
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST	
C. DOCUMENTS CONSIDERED TO BE RELEVANT	
Category * Citation of document, with indication, where a	ppropriate, of the relevant passages Relevant to claim No.
X US 2003/0025855 A1 (HOLMAN et al) 06 February	2003 (06.02.2003), claims, 0028-
O117. US 2003/0011867 A1 (LOXLEY) 16 January 2003 ((16.01.2003), 0017-0028.
Further documents are listed in the continuation of Box C.	See patent family annex.
Special categories of cited documents:	"T" later document published after the international filing date or priority
"A" document defining the general state of the art which is not considered to be	date and not in conflict with the application but cited to understand the principle or theory underlying the invention
of particular relevance "E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination
"O" document referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in the art
"P" document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
25 January 2005 (25.01.2005)	28 FEB 2005
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	Authorized officer Monique R Jackson Telephone No. 571-272-1700

Form PCT/ISA/210 (second sheet) (January 2004)