(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
13 December 2007 (13.12.2007)

PCT

(10) International Publication Number
WO 2007/143171 A2

(51) International Patent Classification:
*G09G 3/36* (2006.01)

(21) International Application Number:
PCT/US2007/013069

(22) International Filing Date: 1 June 2007 (01.06.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/803,752 2 June 2006 (02.06.2006) US

(71) Applicant *(for all designated States except US)*: **FURY TECHNOLOGIES CORPORATION** [US/US]; 501 SE Columbia Shores Boulevard, Suite 250, Vancouver, WA 98661 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **SACHS, Jonathan, A.** [US/US]; P.O. Box 61482, Vancouver, WA 98666 (US). **SANFORD, James, L.** [US/US]; 2623 NW 28th Circle, Camas, WA 98607 (US). **GOETZ, Howard, V.** [US/US]; 11145 SW 114 Place, Tigard, OR 97223 (US).

(74) Agents: **SMITH, Harry, F.** et al.; Harrington & Smith, PC, 4 Research Drive, Shelton, CT 06484-6212 (US).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

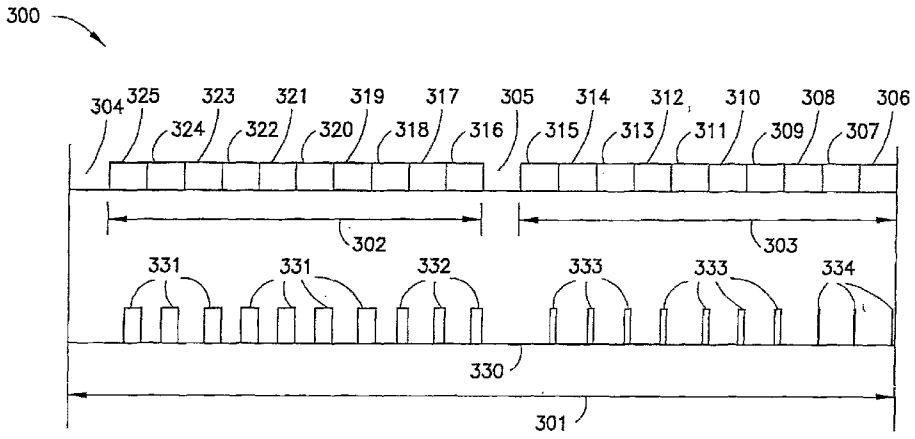
(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, 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:** PULSE WIDTH DRIVING METHOD USING MULTIPLE PULSE




(57) **Abstract:** A method, device and computer program are detailed for modulating write light. For a plurality of pixel locations of an electro-optic layer of an optical write valve and across each of a plurality of consecutive frames, a set of pixel data bits is modulated across a first and a second pulse width period of the frame. The first and second pulse width periods, and adjacent pulse periods of sequential frames, are separated from one another by a pulse-off period that is at least equal to a response time of the electro-optic layer during which no bits are modulated. Separately in each frame, write light is output from each of the plurality of pixel locations according to the modulated pixel data bits in the frame. In an embodiment, the set of pixel data bits are modulated by applying a voltage at a pixel location of the electro-optic layer in synchronism with illuminating a light source that illuminates that pixel location.

WO 2007/143171 A2