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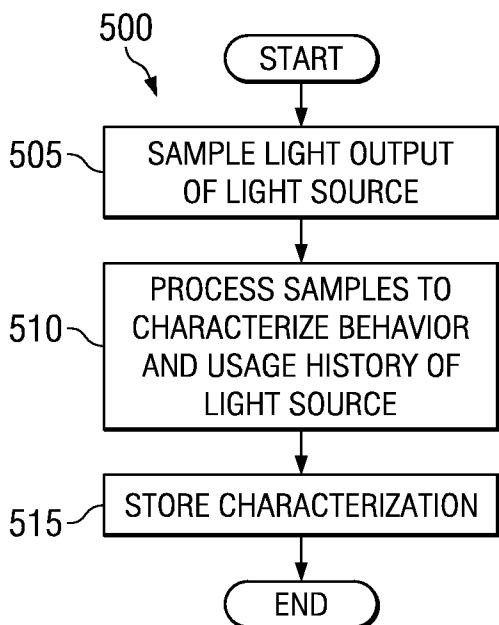
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(57) Abstract: System and method for using predictive pulse modulation in display applications. A preferred embodiment comprises sampling a light output of a light source (block 505), computing a usage history of the light source (block 510), and processing the samples of the light output in combination with the usage history to characterize the light source (block 510). The characterization of the light source can be used in conjunction with a desired light output to determine a current pulse waveform to provide to the light source to have the light source produce the desired light output. The characterization of the light source can occur during normal use of the display system or during manufacture or setup and configuration of the display system.

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INTERNATIONAL SEARCH REPORT

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| A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - G09G 5/10 (2007.10) USPC - 345/691 According to International Patent Classification (IPC) or to both national classification and IPC | | |
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| B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) USPC: 345/691 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched USPC: 345/204, 210, 212, 691 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) PubWEST(PGPB,USPT,EPAB,JPAB); DialogPRO(Engineering) Search terms: pulse modulation, display, sampling, characterize, light source, waveform, array, opto-electrical converter, waveform shaping, light modulator, temperature, optical modulator, feed-forward linearization, current waveform, solid-state | | |
| C. DOCUMENTS CONSIDERED TO BE RELEVANT | | |
| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| X --- Y | US 2005/0200578 A1 (LEE et al.) 15 September 2005 (15.09.2005) entire document (especially fig 1 and para [0004], [0012], [0044]) | 1, 4-6 ----- 2-6 |
| X --- Y | US 2005/0276033 A1 (JAFFAR et al.) 15 December 2005 (15.12.2005) entire document (especially fig 2-4 and para [0023], [0026]-[0031]) | 7-9 ----- 10-11 |
| Y | WO/2006/056066 A1 (ASHDOWN et al.) 01 June 2006 (01.06.2006) entire document (especially fig 2-4 and para [0051], [0057]-[0058], [0092], [0099]) | 2-6, 10-11 |
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