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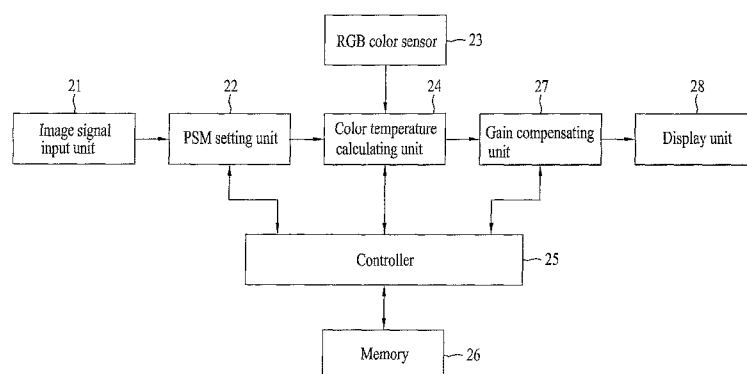
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(54) Title: IMAGE DISPLAY APPARATUS AND METHOD OF COMPENSATING FOR WHITE BALANCE

FIG. 2



(57) Abstract: An image display apparatus and a method of compensating for white balance are disclosed. The method of compensating for white balance of an image display apparatus includes reading a picture status mode (PSM) set in the image display apparatus, measuring the light amounts of RGB color signals from an external light source of the image display apparatus and detecting a color temperature of the external light source, calculating a difference between the detected color temperature of the external light source and a color temperature of the white balance of the set PSM, performing white balance gain compensation for correcting the color temperature of an input image according to the PSM using the calculated difference between the color temperatures, and displaying an image of which the white balance gain is compensated for. Accordingly, it is possible to correct a difference between color temperatures according to a PSM of an input image and an external light source in TV viewing conditions of various environments and maintain sharp white balance of an output image.

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER IPC⁸: H04N 9/73 (2006.01); H04N 9/64 (2006.01) 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) IPC⁸: G09F G02F H04N 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) EPODOC, WPI, X-FULL		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 11 069370 A (FUJI XEROX CO LTD) 9 March 1999 (09.03.1999) <i>figs 1,5; abstract; page 3, paragraph [0015]; page 4, paragraphs [0028],[0031]; page 5, paragraphs [0045] - [0046].</i> --	1-23
A	JP 11 355797 A (OLYMPUS OPTICAL CO LTD) 24 December 1999 (24.12.1999) <i>figs 1-3; page 4, paragraphs [0026] - [0030].</i> --	1-23
A	US 5 870 069 A (CHOH ET AL.) 9 February 1999 (09.02.1999) <i>whole document.</i> --	1-23
☒ Further documents are listed in the continuation of Box C. ☒ See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "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) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "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 "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 being obvious to a person skilled in the art "&" document member of the same patent family		
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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A	KR 2007/0028022 A (LG ELECTRONICS INC.) 12 March 2007 (12.03.2007) <i>whole document.</i>	1-23

INTERNATIONAL SEARCH REPORT

Information on patent family members

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