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(54) Video display device and operating method therefore

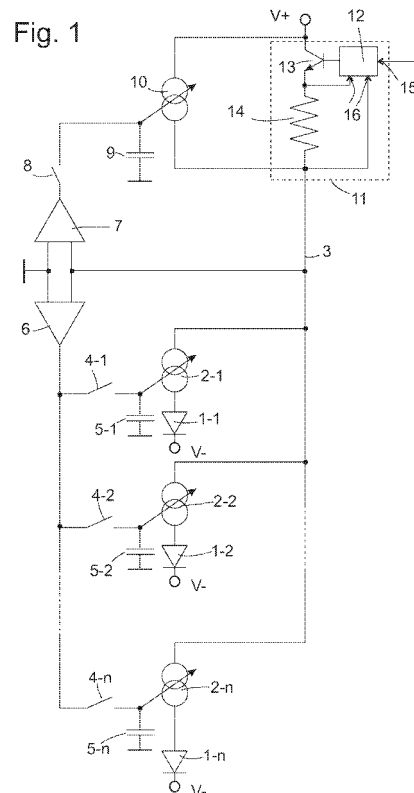
(57) A video display device comprises

- a plurality of light emitting elements (1-1, 1-2, ..., 1-n) arranged in a matrix having rows and columns;
- a plurality of first current modulators (2-1, 2-2, ..., 2-n), each of which is associated to one of said light emitting elements (1-1, 1-2, ..., 1-n), for drawing a feed current of programmable intensity (I_{D1} , I_{D2} , ..., I_{Dn}) for the associated light emitting element (1-1, 1-2, ..., 1-n) from a circuit node (3) associated to each of said columns;
- a current generator (11) controlled by video data representative of desired luminosities ($D1$, $D2$, ..., Dn) of said light emitting elements for supplying a first current (I_{DATA}) to said circuit node (3), the intensity of which is representative of a desired luminosity ($D1$, $D2$, ..., Dn) of at least one of said light emitting elements (1-1, 1-2, ..., 1-n);

the circuit node (3) having a specific voltage level when the intensity supplied by said current generator (11) is drawn from the current node (3) by the first current modulator (2-1, 2-2, ..., 2-n) associated to said at least one light emitting element (1-1, 1-2, ..., 1-n);

- a second current modulator (10) for supplying a second current (I_{10}) to said circuit node (3);
- a comparator (7) having inputs connected to said circuit node (3) and to a reference terminal which is constantly held at said specific voltage level and an output connected to a control input of said second current modulator (10), whereby the second current (I_{10}) from said second

current modulator (10) is controlled so as to yield said specific voltage level at the circuit node (3).



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EUROPEAN SEARCH REPORT

Application Number
EP 07 10 8551

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A	US 2004/100430 A1 (FRUEHAUF NORBERT) 27 May 2004 (2004-05-27) * paragraphs [0001], [0007], [0010], [0017]; figure 1 * -----	1-7	
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The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 27 January 2009	Examiner Taron, Laurent
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

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ANNEX TO THE EUROPEAN SEARCH REPORT
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