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(54) Method for displaying picture image data.

(57) A method for displaying a picture image in which pixel data are divided into groups every 2^m of the data which are aligned sequentially, the pixel data of each of the divided groups are written into the same numbered addresses of memory elements of 2^m, and read out the 2^m pixel data in parallel, then the data are converted into parallel to series (vice versa) so that order of the data may be restored to the original order thereof. When the pixel data are written in the memory elements, every at least two consecutive addresses sequence of the consecutive 2^m pixel data are changed according to accessed addresses and at least every two groups the identical specific numbered pixel data in the groups are controlled so that they may be written in different numbered memory elements with each other. In the case of reading out pixel data from the memory elements, data of 2^m read out of the memory elements of 2^m by any consecutive addresses are rearranged according to the writing control in the case of normal display, and in 1/2ⁿ reduction display both vertical and horizontal addresses are multiplied by 2ⁿ according to 1/2ⁿ reduction, and the 2^m memory elements are read out basing on different 2ⁿ ad-

resses obtained according to writing control.

EP 0 196 733 A3



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EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
X	DE-A-3 109 169 (PHILIPS PATENTVERWALTUNG GmbH) * Claims 1-7 *	1,5	G 09 G 1/16 G 09 G 1/02
A	GB-A-2 092 785 (RCA CORP.) * Page 1, lines 44-67 *	1,5	
A,P	EP-A-0 139 094 (IBM)(02-05-1985) * Page 2, last paragraph - page 3, paragraph 1 * & AU-A-3 022 684 (21-05-1985)	1	
A	US-A-3 794 970 (PEARSON et al.) * Claims 1,4 *	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			G 09 G
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 04-12-1989	Examiner TIBAU M.J.P.G.
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			