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(54) **Video graphics display memory swizzle logic circuit and method.**

(57) There is disclosed a circuit and method of operation which controls the reordering of data as it is transferred to control a memory (200). The data to be reordered is presented such that the ordinate bit position within a data word is uniquely associated with a particular input to a data bus (20). The bus inputs, however, are connected to the VRAM (200) in an arrangement contrary to the desired ordinate as-

sociation with the compressed data word. A single swizzle logic circuit (32) operates to allow graphic compressed data to be reordered for presentation to the block-write inputs of a VRAM (200-207) regardless of the VRAM or pixel size. The circuit (32) relies upon properly expanding the compressed data prior to the actual reordering of the ordinate positions of the data bits.

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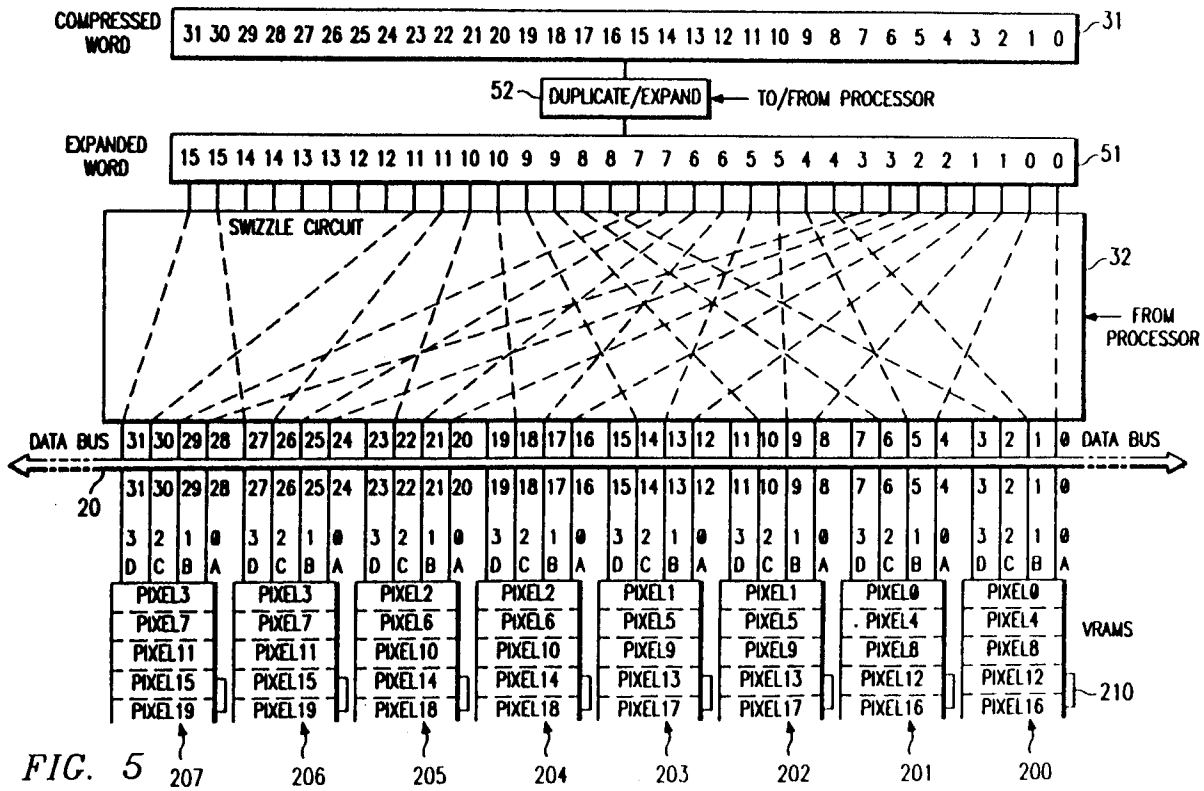


FIG. 5



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EUROPEAN SEARCH REPORT

Application Number

EP 90 30 8245

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.5)
A	US-A-4 807 189 (PINKHAM ET AL.) 21 February 1989 * Abstract * * column 3, line 5 - line 25; figures 1,2,6,9 * * column 10, line 58 - column 11, line 11 * * column 16, line 26 - line 41 * ---	1,8,12, 17,21, 25,27	G09G1/16
A	WO-A-8 807 235 (FAIRCHILD SEMICONDUCTOR CO.) 22 September 1988 * Abstract * * page 8, line 1 - page 12, line 22; figures 1,11,12 * * page 66, line 32 - page 68, line 29 * ---	1-3,8,9, 12-14, 17,19, 21,25,27	
A	EP-A-0 279 230 (IBM CO.) 24 August 1988 * Abstract * * page 3, line 48 - page 4, line 56; figures 1-9 * * page 6, line 56 - page 8, line 16 * * page 5, line 30 - line 42 * ---	1,2,8, 12,13, 17,21, 25,27	TECHNICAL FIELDS SEARCHED (Int. Cl.5) G09G G06F
A	PATENT ABSTRACTS OF JAPAN vol. 12, no. 350 (P-760)20 September 1988 & JP-A-63 104 186 (MATSUSHITA ELECTRIC IND. CO. LTD.) 9 May 1988 * abstract * ---	4,10,15, 30	
A	EP-A-0 071 744 (IBM CO.) 16 February 1983 * Abstract * * claim 2; figures 1-3 * -----	17,21, 25,26,28	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 20 AUGUST 1992	Examiner CORSI F.
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			