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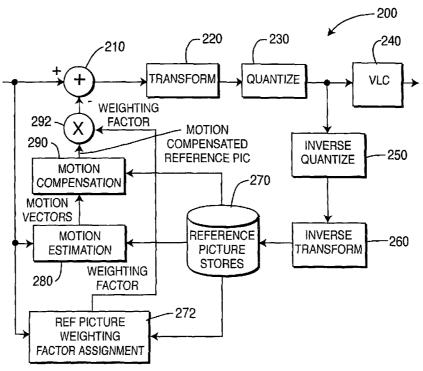
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[Continued on next page]

(54) Title: ENCODING OF VIDEO CROSS-FADES USING WEIGHTED PREDICTION



(57) Abstract: A video encoder (200) is provided for encoding video signal data for at least one cross-fade picture disposed between a fade-out start picture and a fade-in end picture. The encoder portion includes a reference picture weighting factor unit (272) for assigning weighting factors corresponding to each of the fade-out start picture and the fade-in end picture.

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 before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/36413

A. CLA	COPPOSITION OF CHAPTER				
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"" ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '					
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) U.S.: 375/240.01, 240.12, 240.16; 348/590,699,700					
Documentation searched other than minimum decumentation 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)					
IEEE search terms: dissolve, fade, mpeg, encode, video					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category &	Citation of document, with indication, where appropriate, of the relevant passages			Relevant to claim No.	
Y	US 6,570,923 B2 (SAUNDERS et al) 27 May 2003 (27.05,2003), column 2, lines 35-49 and 65-67; column 3 lines 1-7; column 4 lines 41-67; column 5 lines 1-25; column 7 lines 6-38, figures 2 and 8.			1-8	
Y	YONEYAMA et al., Fast Dissolve Operations For Mpeg Video Contents, IEEE 2000, pages 291-294, especially pages 292 and 293.			1-8	
A	us 6,606,409 B2 (WARNICK et al) 12 August 2003 (12.08.2003), all			1-8	
	,				
Fluther	r documents are listed in the continuation of Box C.	See patent fo	mily annex.		
"A" document	Special categories of cited documents; The later document published after the international filing it does not not in conflict with the application but cited to principle or theory underlying the invention of particular relevance		alon but clied to understand the		
-	denounce "X" denounce of the intermedial control of the control of		al or cannot be consider	claimed invention cassed ha	
	which may throw despite on priority claim(s) or which is cited to the publication date of another classion or other special reason (as	When the document is taken alone "Y" document of particular relevance; the chalmad invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination			
"O" documen	referring to an oral disclosure, use, exhibition or other means	combined with one of more other such documents, such combination being obvious to a person skilled in the art			
*P" document published prior to the international filing date but later than the "&" document member of the same patent family priority date claimed				•	
Date of the actual completion of the international search		Date of mailing of the marnational search report			
12 July 2004 (12.07.2004)					
Name and mailing address of the ISA/US Mail Stop FCT, Ann: ISA/US Commissioner for Fatents P.O. Bon: 1450 Alexandris, Virginia 22313-1450 Faceiralle No. (703) 305-3230				Mind	
Facsimile No. (703) 305-3230					

Form PCT/ISA/210 (second sheet) (July 1998)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/36413

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)					
This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:					
Claim Nos.: because they relate to subject matter not required to be searched by this Authority, namely:					
2. Claim Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:					
3. Claim Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).					
Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)					
This International Searching Authority found multiple inventions in this international application, as follows: Claims 1-8 deal with a generic video encoder for encoding a cross-fade picture with limited description of the method used for the encoding. Claims 9-17 are related to a specific method of cross-fade picture encoding including steps not included in claims 1-8, such as the step of identifying pictures for which a cross-fade is defined. Claims 18-25 describe a CODEC that describes a decoder for decoding cross-fade pictures.					
 As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.: 					
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-8 Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.					