



(12) EUROPEAN PATENT APPLICATION

(88) Date of publication A3:  
18.03.1998 Bulletin 1998/12

(51) Int. Cl.<sup>6</sup>: G11B 27/036, H04N 5/926,  
H04N 7/46, H04N 7/52,  
H04N 5/7826

(43) Date of publication A2:  
19.06.1996 Bulletin 1996/25

(21) Application number: 95119583.3

(22) Date of filing: 12.12.1995

(84) Designated Contracting States:  
DE FR GB

(72) Inventor: Murakami, Yoshihiro  
Shinagawa-ku, Tokyo (JP)

(30) Priority: 12.12.1994 JP 307714/94

(74) Representative:  
Müller, Frithjof E., Dipl.-Ing. et al  
Patentanwälte  
MÜLLER & HOFFMANN,  
Innere Wiener Strasse 17  
81667 München (DE)

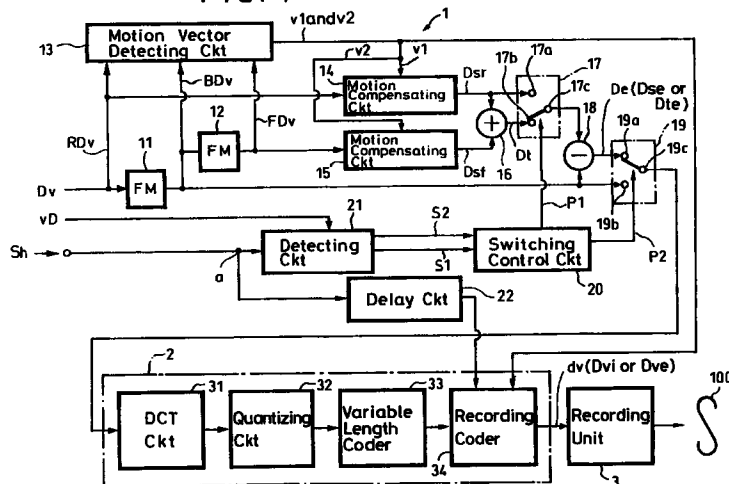
(71) Applicant: SONY CORPORATION  
Tokyo (JP)

(54) Apparatus for and method of coding and/or decoding information data

(57) An apparatus for coding and/or decoding information data can edit information data at the compression unit by use of a high-efficiency two-way motion compensation predictive system. A motion compensation processing circuit (1) includes one-way predicting means (first motion compensating circuit (14)) for motion-compensation-predicting video data (Dv) based on frame information just behind the video data (Dv), two-way predicting means (first and second motion compensating circuits (14), (15) and an adder (16)) for motion-compensation-predicting the video data (Dv) based on frame information immediately-preceding and

immediately-succeeding the video data (Dv) and a first switching circuit (17) for selectively switching one-way motion compensation predictive data (Dsr) supplied thereto from the one-way predicting means (14) and two-way motion compensating data (Dt) supplied thereto from the two-way predicting means (14, 15, 16) based on edit information (Sh) supplied thereto through an input terminal ( $\phi e$ ). A data compression processing circuit (2) includes a synthesizing circuit for synthesizing coded data (dv) with motion vector data (v1 and v2) and the edit information (Sh).

FIG. 1





European Patent Office

EUROPEAN SEARCH REPORT

Application Number  
EP 95 11 9583

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.6)
X	EP 0 614 186 A (CANON KK) * the whole document *	4,5,9,10	G11B27/036 H04N5/926
A	---	1-3,6-8	H04N7/46 H04N7/52
A	EP 0 456 433 A (SONY CORP) * the whole document *	1-10	H04N5/7826
P,A	EP 0 656 729 A (MATSUSHITA ELECTRIC IND CO LTD) * the whole document *	1-10	
A	EP 0 554 086 A (MITSUBISHI ELECTRIC CORP) * column 19, line 19 - column 45, line 25; claims 1-27; figures 25-54 *	1-10	
A	EP 0 560 577 A (MATSUSHITA ELECTRIC IND CO LTD) * the whole document *	1-10	
A	EP 0 590 974 A (TOKYO SHIBAURA ELECTRIC CO) * the whole document *	1,3,4,6,8,9	TECHNICAL FIELDS SEARCHED (Int.Cl.6)
A	EP 0 557 948 A (NIPPON ELECTRIC CO) * the whole document *	1,2,6,7	G11B H04N
D,A	US 4 897 720 A (WU LANCELOT ET AL) * the whole document *	1,4,6,9	
The present search report has been drawn up for all claims			
Place of search <b>THE HAGUE</b>		Date of completion of the search <b>23 January 1998</b>	Examiner <b>Daalmans, F</b>
CATEGORY OF CITED DOCUMENTS		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	
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			

EPO FORM 1503 03.82 (P04C01)