

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : H04N 7/30, G06T 9/00	A1	(11) International Publication Number: WO 98/35503
		(43) International Publication Date: 13 August 1998 (13.08.98)
(21) International Application Number: PCT/JP98/00474		(81) Designated States: BR, CN, ID, KR, MX, SG, US, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).
(22) International Filing Date: 5 February 1998 (05.02.98)		
(30) Priority Data: 9/61647 8 February 1997 (08.02.97) JP 9/186437 11 July 1997 (11.07.97) JP		
(71) Applicant (for all designated States except US): MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. [JP/JP]; 1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8501 (JP).		
(72) Inventors; and (75) Inventors/Applicants (for US only): SHEN, Sheng, Mei [SG/SG]; Blk 7 Ghim Moh Road #12-271, Singapore 270007 (SG); TAN, Thiow, Keng [MY/SG]; Blk 601 Bedok Reservoir Road #08-506, Singapore 470601 (SG).		
(74) Agents: AOYAMA, Tamotsu et al.; Aoyama & Partners, IMP Building, 3-7, Shiromi 1-chome, Chuo-ku, Osaka-shi, Osaka 540-0001 (JP).		Published With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

(54) Title: QUANTIZATION MATRIX FOR STILL AND MOVING PICTURE CODING

(57) Abstract

An encoder and a decoder for still and moving picture are disclosed. The encoder has a memory for storing a default quantization matrix including a plurality of quantization elements having predetermined values. Also, a generator is provided for producing a particular quantization matrix after a number of frames. The particular quantization matrix is read in a predetermined zigzag pattern, and the reading is terminated at a selected position which is in the middle of the zigzag pattern. An end code is added after the read quantization elements of a former portion of the particular quantization matrix. The quantization elements in the default quantization matrix are read in the same zigzag pattern from a position immediately after the selected position, and producing a latter portion of the default quantization matrix. The former portion of the particular quantization matrix and the latter portion of the default quantization matrix are synthesized to form a synthesized quantization matrix.

