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INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 5 :	A3	(11) International Publication Number:	WO 93/10624
H04N 7/13, 7/133, 7/137		(43) International Publication Date:	27 May 1993 (27.05.93)

(21) International Application Number: PCT/US92/09996

(22) International Filing Date: 17 November 1992 (17.11.92)

(30) Priority data:
794,493 19 November 1991 (19.11.91) US

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(81) Designated States: CA, JP, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE).

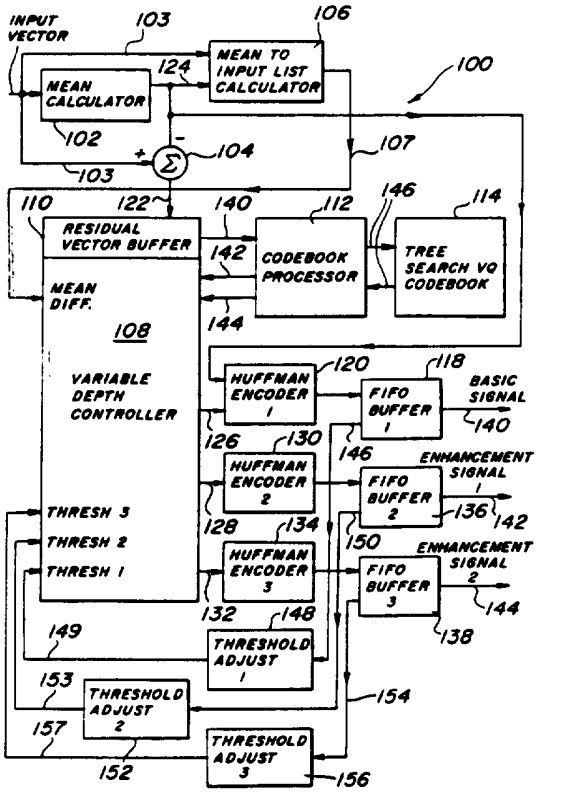
Published
With international search report.
Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

(88) Date of publication of the international search report:
28 October 1993 (28.10.93)

(54) Title: PROGRESSIVE TRANSMISSION OF VECTOR QUANTIZED DATA

(57) Abstract

A distortion adaptive vector quantization method is employed to select, for each input vector (103), several codevectors from a tree structured codebook (114). The first codevector defines a basis signal (140), and each subsequent codevector defines an enhancement signal (142, 144). The basic signal is indicative of the full codebook address from which the first codevector was selected. Each enhancement signal is indicative of only so much of the additional address bits that are required, in combination with the basic signal, to identify the address of the codebook from which the subsequent codevectors were selected. The basic signal and each enhancement signal are transmitted to a decoder which may employ only the basic signal, or the basic signal and one or more of the enhancement signals to reproduce the input vector. The reproduction quality of the input vector increases with the number of enhancement signals chosen



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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US92/09996

A. CLASSIFICATION OF SUBJECT MATTER

IPC(5) :H04N 7/13, 133, 137
US CL :358/86, 133, 135, 136; 341/67
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. : 358/86, 133, 135, 136; 341/67

Documentation searched other than minimum documentation 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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A, P	US, A, 5,130,797 (Murakami) 14 July 1992	1
A, P	US, A, 5, 122,873 (Golin) 16 June 1992	1
A, P	US, A, 5, 086,439 (Asai) 04 February 1992	1
A	US, A, 5, 031,037 (Israelson) 09 July 1991	1
A	US, A, 4, 933,761 (Murakami) 12 June 1990	1
A	US, A, 4, 849,810 (Ericsson) 18 July 1989	1
A	US, A, 4, 878,230 (Murakami) 31 October 1989	1

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Date of the actual completion of the international search
19 AUGUST 1993

Date of mailing of the international search report
21 SEP 1993

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Form PCT/ISA/210 (second sheet)(July 1992)*