

US006792045B2

(12) United States Patent

Matsumura et al.

(10) Patent No.: US 6,792,045 B2

(45) **Date of Patent:** Sep. 14, 2004

(54) IMAGE SIGNAL TRANSCODER CAPABLE OF BIT STREAM TRANSFORMATION SUPPRESSING DETERIORATION OF PICTURE QUALITY

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35

U.S.C. 154(b) by 388 days.

(21) Appl. No.: 09/769,415

(22) Filed: Jan. 26, 2001

(65) Prior Publication Data

US 2001/0010707 A1 Aug. 2, 2001

(30) Foreign Application Priority Data

(51)	Int. Cl. ⁷	H04N 7/12
	U.S. Cl	
(58)	Field of Search	375/240.01, 240.02,
	375/240.03, 240.1, 240.11,	240.12, 240.13-240.16,
	240.25, 240.26, 240.28, 2	40.29; 348/397.1–399.1,

Jan. 31, 2000 (JP) 2000-022541

25, 240.26, 240.28, 240.29; 348/397.1–399.1, 390.1, 424.1, 424.2, 425.1, 425.3, 425.4, 426.1, 441, 452; 382/233–236, 238–239; 386/27, 33, 109, 111–112; H04N 7/12

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(57) ABSTRACT

An MPEG2 decoder portion decodes an input bit stream and outputs a digital decoded image while extracting coding information and supplying the same to a control portion. An MPEG2 encoder portion re-encodes the digital decoded image output from the MPEG2 decoder portion. Coding information supplied from the control portion is reflected on a coding parameter in re-encoding. Transcoding between the MPEG2 standard and the DV standard can also be executed by arranging a decoder or an encoder corresponding to the DV standard in place of either the MPEG2 decoder portion or the MPEG2 encoder portion.

13 Claims, 12 Drawing Sheets

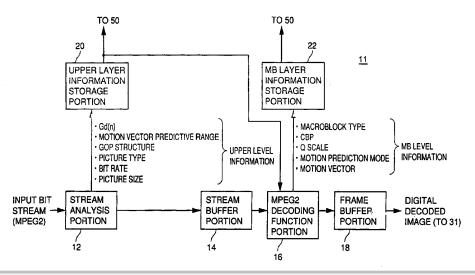




FIG. 1

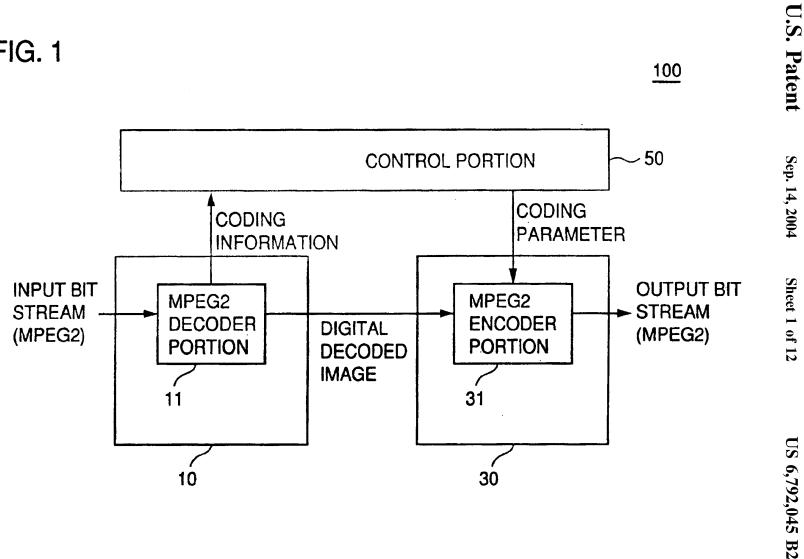
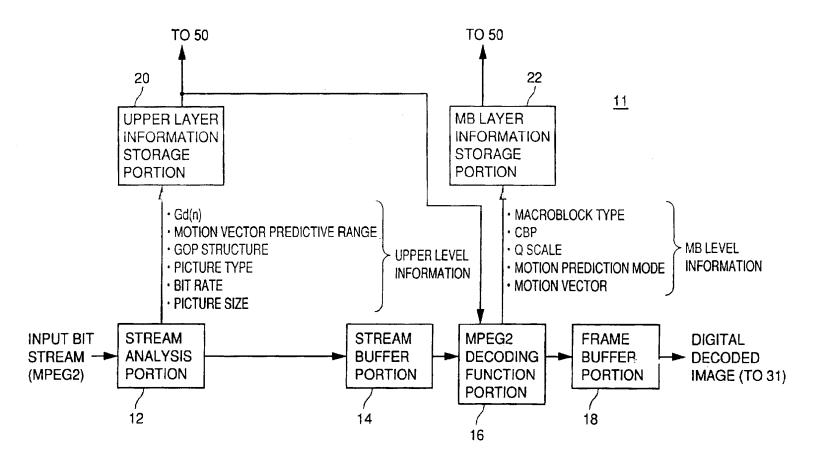


FIG. 2



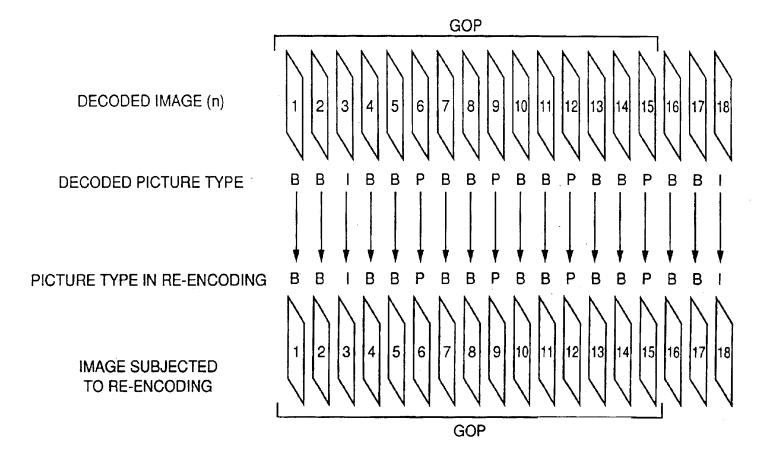
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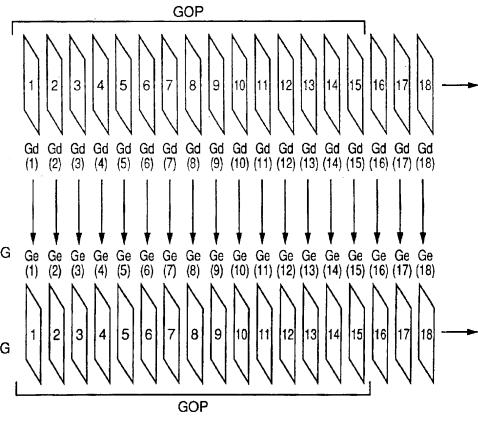
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CODE QUANTITY
(NUMBER OF GENERATED BITS)
OF EACH PICTURE Gd(n)

DECODED IMAGE (n)

TARGET CODING QUANTITY Ge(n) FOR EACH PICTURE IN RE-ENCODING

IMAGE SUBJECTED TO RE-ENCODING



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