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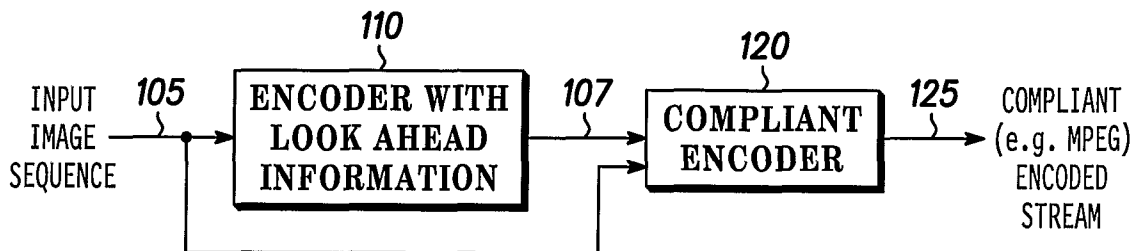
(43) International Publication Date
3 March 2005 (03.03.2005)

PCT

(10) International Publication Number
WO 2005/020439 A3

- (51) International Patent Classification:
H04N 7/12 (2006.01)
 - (21) International Application Number:
PCT/US2004/025929
 - (22) International Filing Date: 10 August 2004 (10.08.2004)
 - (25) Filing Language: English
 - (26) Publication Language: English
 - (30) Priority Data:
60/494,514 12 August 2003 (12.08.2003) US
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 - (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
 - (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
— with international search report
- (88) Date of publication of the international search report:
17 July 2008

(54) Title: METHOD AND APPARATUS FOR SELECTION OF BIT BUDGET ADJUSTMENT IN DUAL PASS ENCODING



100

(57) Abstract: The present invention discloses a system (100) and method for adaptive adjustment of bit budget based on the content of the input image sequence. In one embodiment, two encoders (110, 120) are employed in a dual pass encoding system. A first encoder (110) receives the input image sequence and encodes each frame of the image sequence using a standard or any predefined encoding algorithms. Specifically, by encoding the image sequence using the first encoder (110), the first encoder (110) is able to assess the complexity of each picture in the image sequence, e.g., by measuring the number of bits needed to encode each picture. This complexity information serves as look-ahead information for a second encoder (120).

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/25929

A. CLASSIFICATION OF SUBJECT MATTER
 IPC: H04N 7/12 (2006.01)

USPC: 375/240.1
 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. : 375/240.1

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.
X	US6,687,296 B1 (Sato et al.) 3 February 2004 (3.2.04). fig. 1; fig. 2; figs. 12-16; equations 2-4, 16, 22-24, and 26-28; col. 1 lines 59-62; col. 2 lines 49-65; col. 3 lines 59-64; col. 4 lines 1-4, 11-25; col. 5 lines 2-7; col. 5 line 44 - col. 6 line 6; col. 6 lines 37-41; col. 7 lines 60-65	1-10

Further documents are listed in the continuation of Box C. See patent family annex.

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Date of the actual completion of the international search: 26 March 2008 (26.03.2008)

Date of mailing of the international search report: 02 APR 2008

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