



US007016417B1

(12) **United States Patent**
Román et al.

(10) **Patent No.:** **US 7,016,417 B1**
(45) **Date of Patent:** **Mar. 21, 2006**

(54) **GENERAL PURPOSE COMPRESSION FOR VIDEO IMAGES (RHN)**

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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 0 days.

(21) Appl. No.: **09/470,566**

(22) Filed: **Dec. 22, 1999**

Related U.S. Application Data

(60) Provisional application No. 60/113,276, filed on Dec. 23, 1998.

(51) **Int. Cl.**
H04N 7/12 (2006.01)

(52) **U.S. Cl.** **375/240.23**

(58) **Field of Classification Search** 348/207, 348/143, 211, 212, 400, 407, 384, 413, 385, 348/415; 382/245, 232, 246, 250, 239, 242; 375/240.01, 240.16, 240, 240.23

See application file for complete search history.

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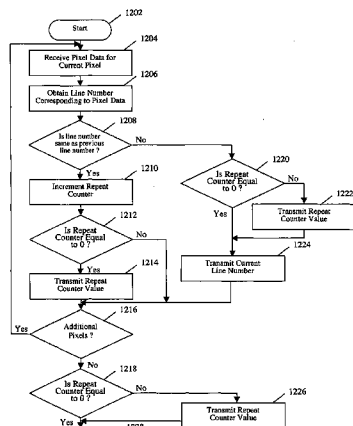
Primary Examiner—Vu Le

Assistant Examiner—Behrooz Senfi

(57) **ABSTRACT**

Methods, medium, and machines which compress, encode, enhance, transmit, decompress and display digital video images in real time. Real time compression is achieved by sub-sampling each frame of a video signal, encoding and filtering the pixel values to codes, and run-length encoding the codes. Real time transmission is achieved due to high levels of effective compression. Real time decompression is achieved by decoding and decompressing the encoded data to display high quality images. High levels of effective compression also reduce the storage space requirement for recorded video.

22 Claims, 19 Drawing Sheets



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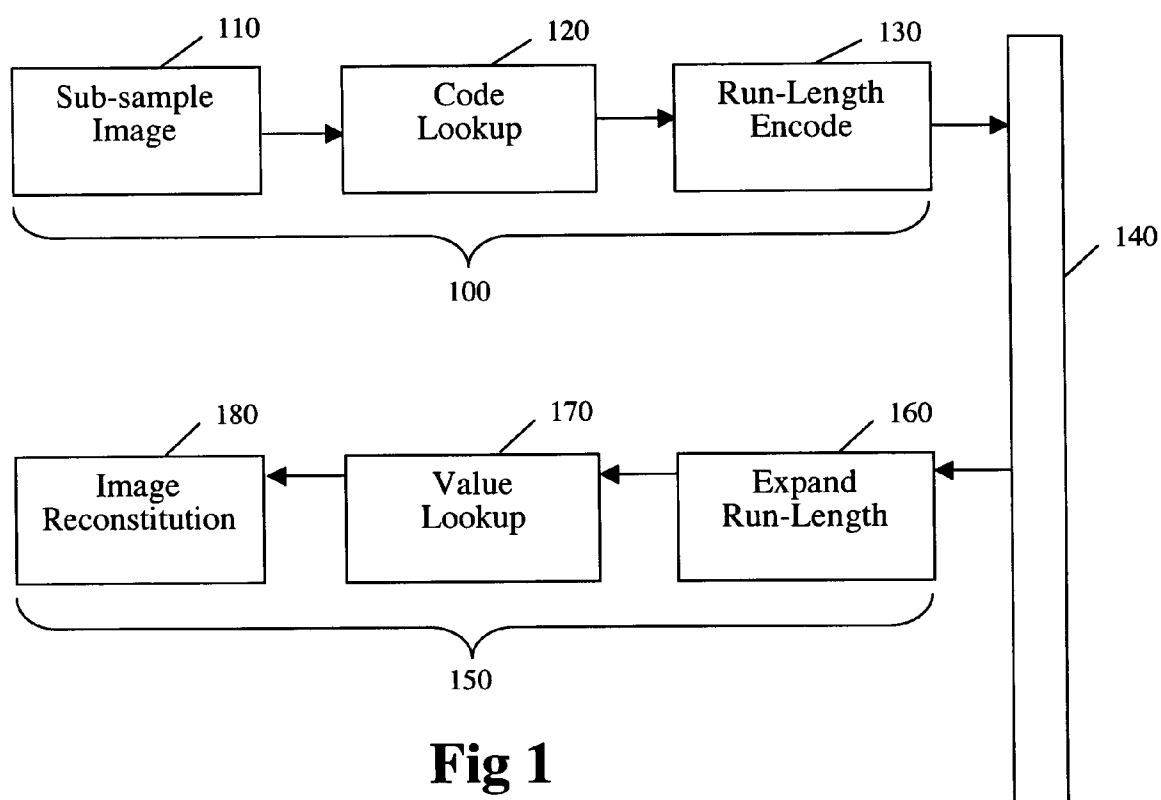
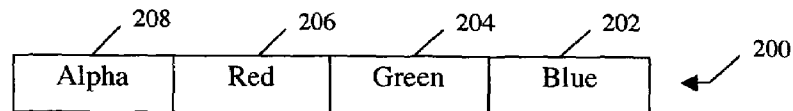
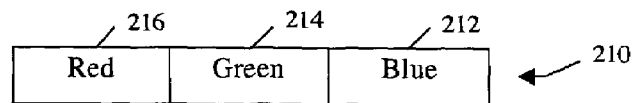
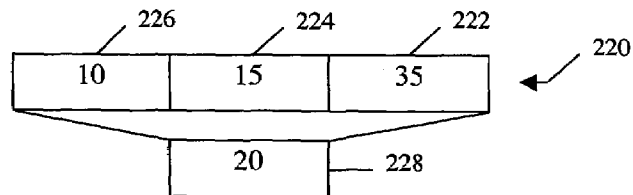
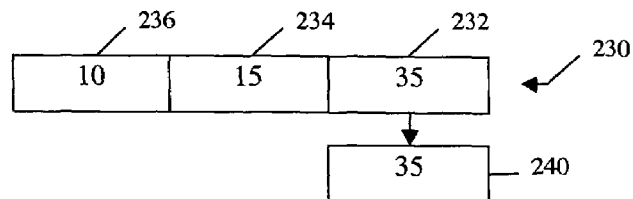
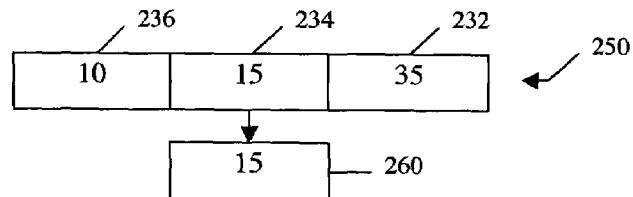
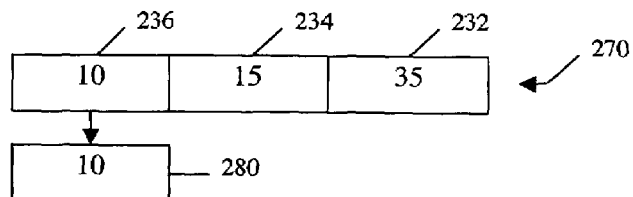
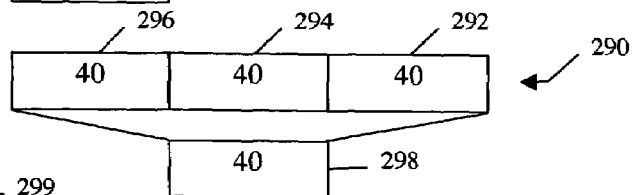
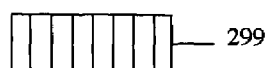


Fig 2A**Fig 2B****Fig 2C****Fig 2D****Fig 2E****Fig 2F****Fig 2G****Fig 2H**

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Fig 3A

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