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United States Patent [19]

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Goetz et al.

[45] Date of Patent: **Sep. 21, 1999**

[54] **MULTIMEDIA FILE, SUPPORTING MULTIPLE INSTANCES OF MEDIA TYPES, AND METHOD FOR FORMING SAME**

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5,774,583 6/1998 Sasaki et al. 382/190

[75] Inventors: **Tom Goetz**, Attleboro; **Manickam R. Sridhar**, Holliston; **Mukesh Prasad**, Chestnut Hill, all of Mass.

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RealMedia Overview, "The First Open Multimedia Streaming Platform," <http://www.realuadio.com/> or e-mail radinfo@prognnet.com; copyright © Progressive Networks, 1996.

[73] Assignee: **Motorola, Inc.**, Schaumburg, Ill.

RealMedia, "Technical White Paper," <http://www.realuadio.com/> or e-mail radinfo@prognnet.com; copyright © Progressive Networks, 1996.

[21] Appl. No.: **08/711,696**

Primary Examiner—Maria N. Von Buhr
Attorney, Agent, or Firm—Peter M. Dichiaro; Jeffrey T. Klayman

[22] Filed: **Sep. 6, 1996**

[51] **Int. Cl.**⁶ **G06F 17/30**

[57] ABSTRACT

[52] **U.S. Cl.** **707/104; 707/102; 707/103**

A multimedia file and method for forming the same organize instances of multimedia information according to media information type (e.g., audio, video, MIDI, etc.), encoding format, media subtype, and encoding rate. Several instances of the same media information type are included, each of such instances having a different encoding format, media subtype, and/or encoding rate. A presentation application utilizes the subject multimedia file to identify, select, and present specific instances of the multimedia information, permitting the presentation application to customize a multimedia presentation based on, among other things, the rate of the connection from the presentation application to the presentation consumer and the decoding capabilities of the presentation consumer.

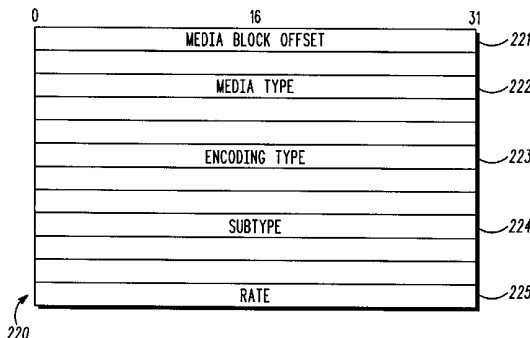
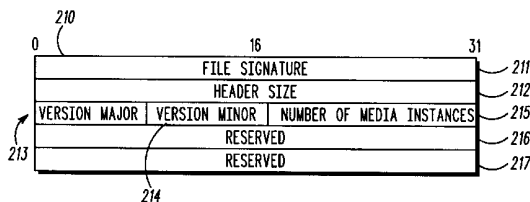
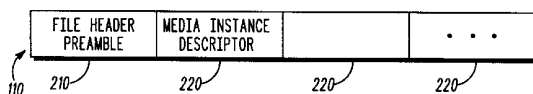
[58] **Field of Search** 707/102-104, 707/200, 1

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31 Claims, 8 Drawing Sheets



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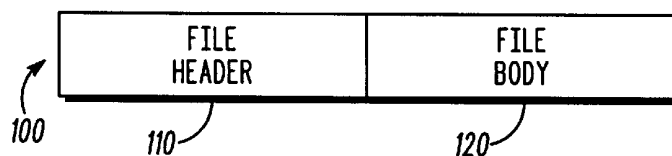


FIG.1

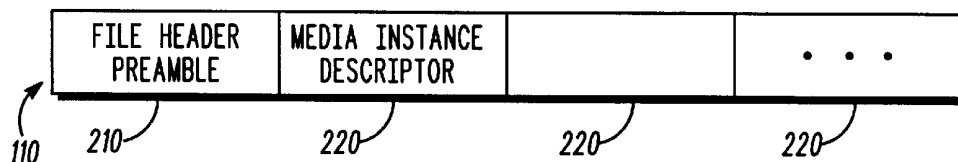


FIG.2A

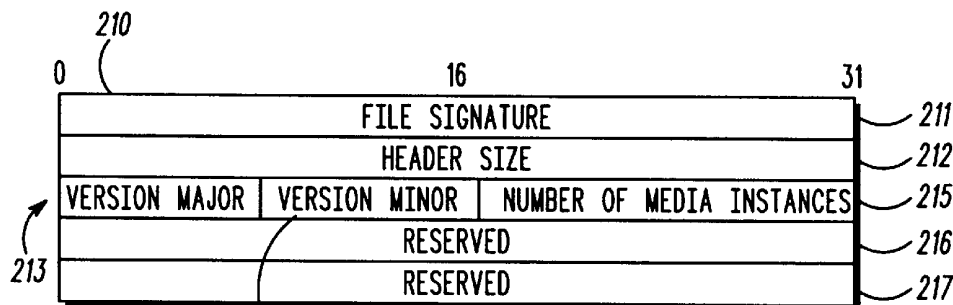


FIG.2B

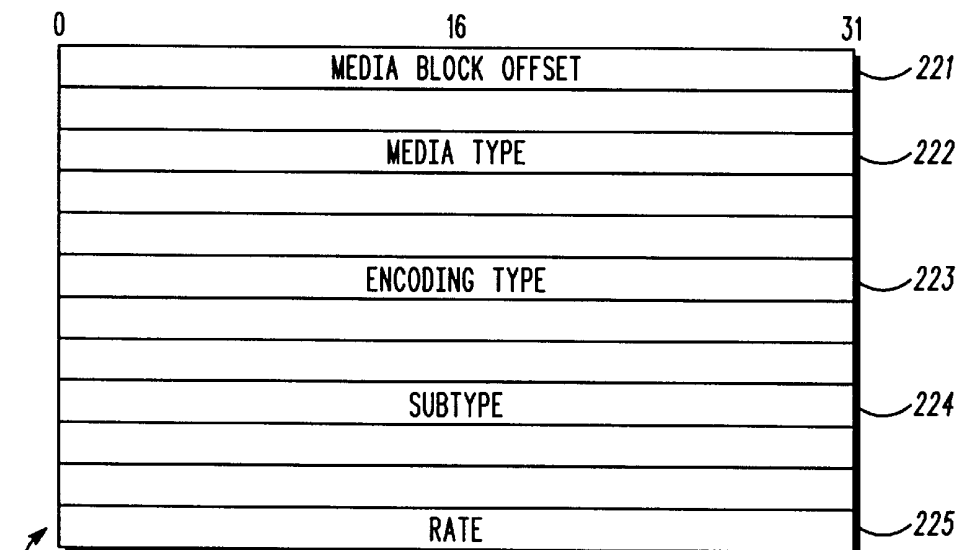
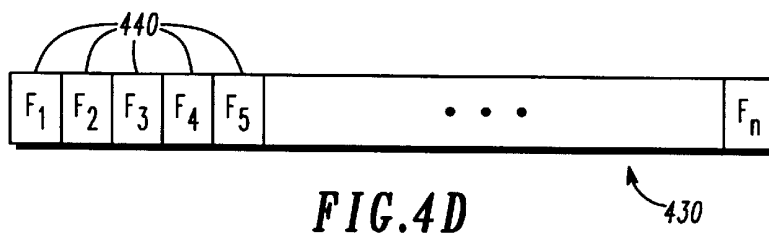
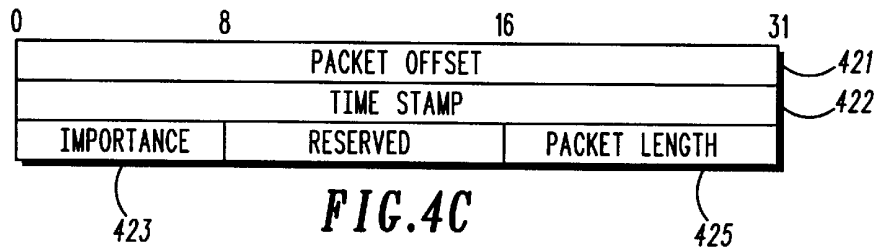
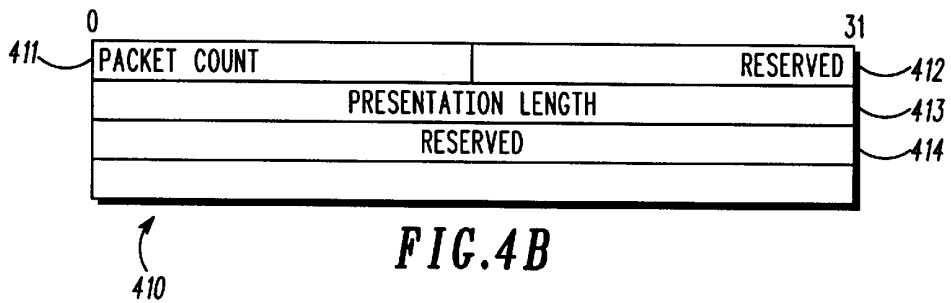
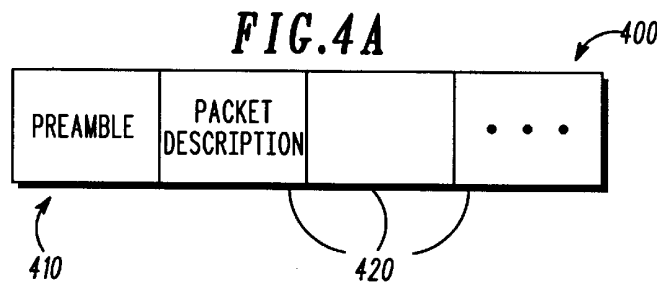
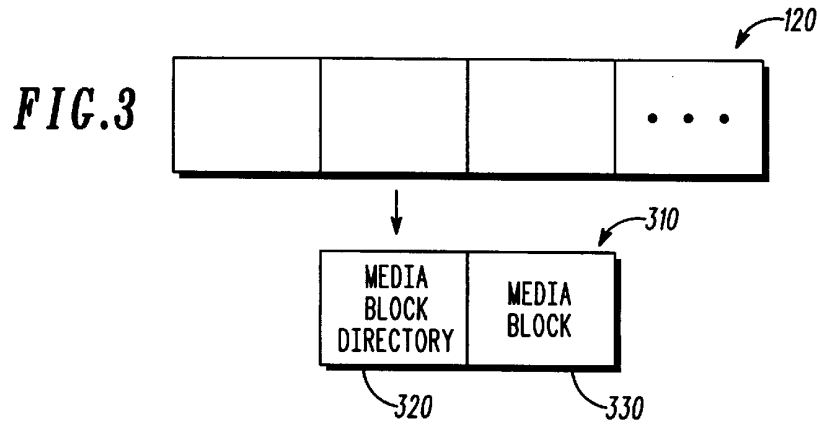
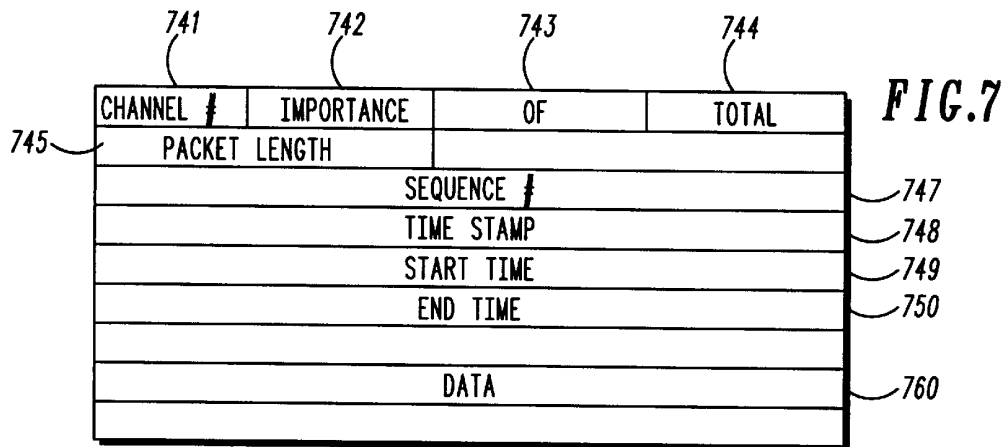
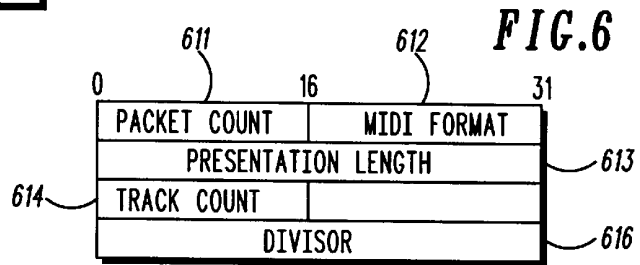
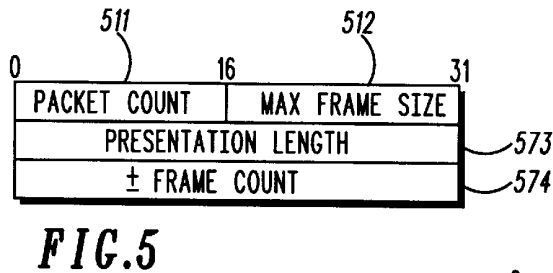
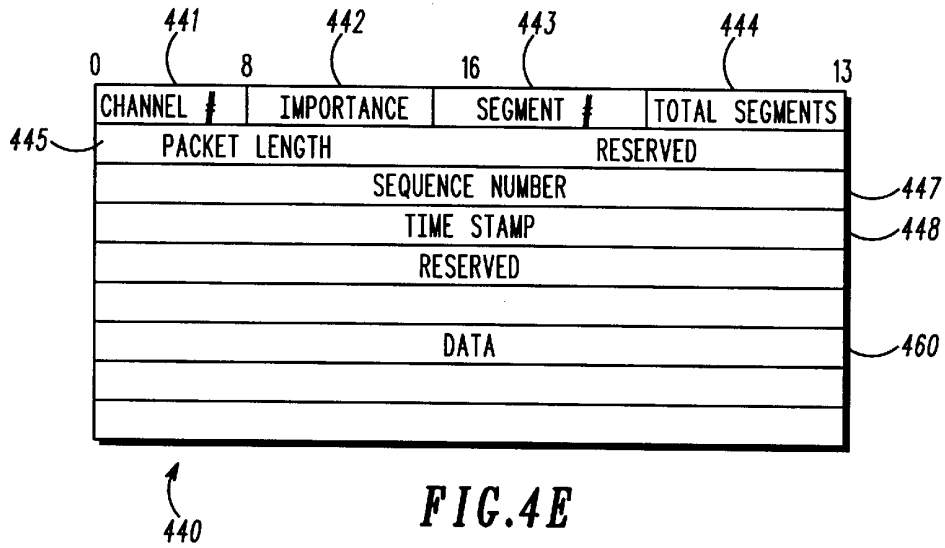


FIG.2C





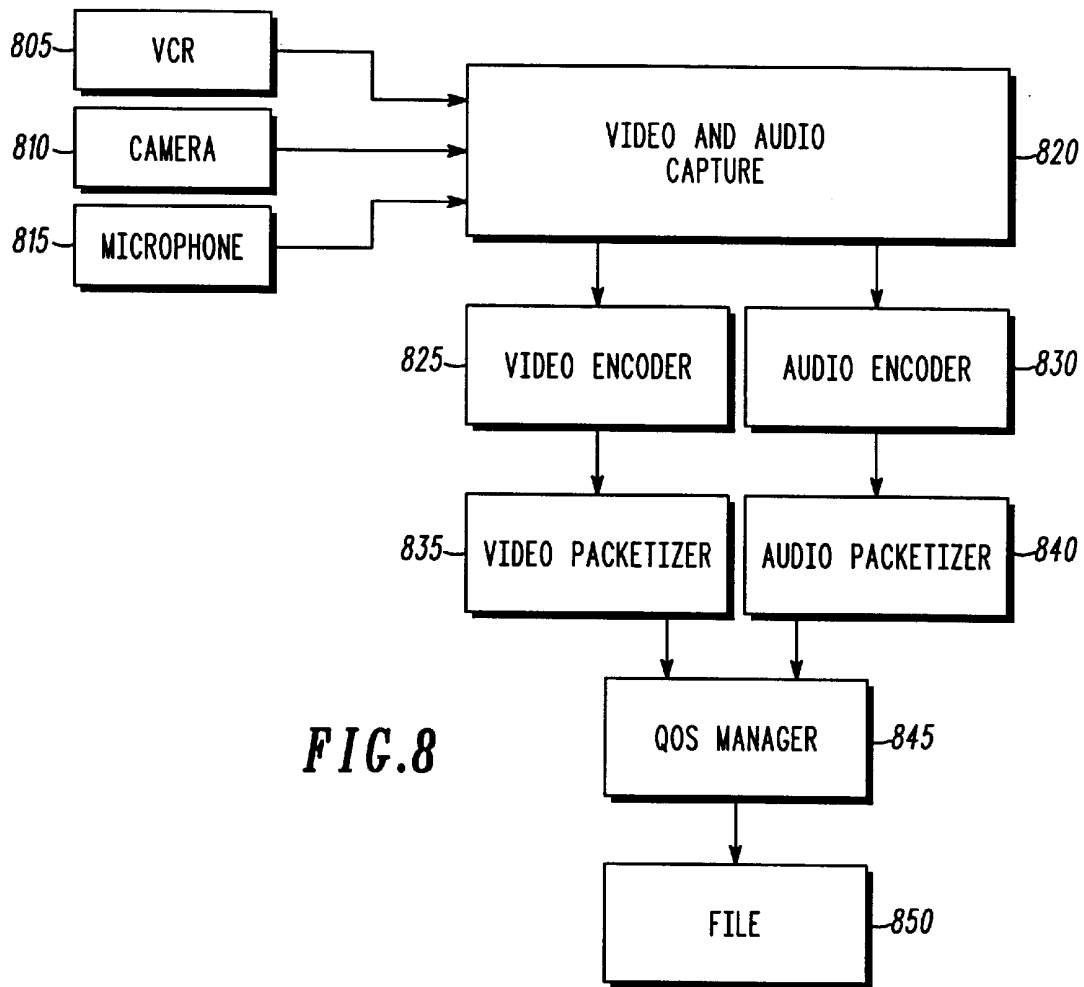


FIG. 8

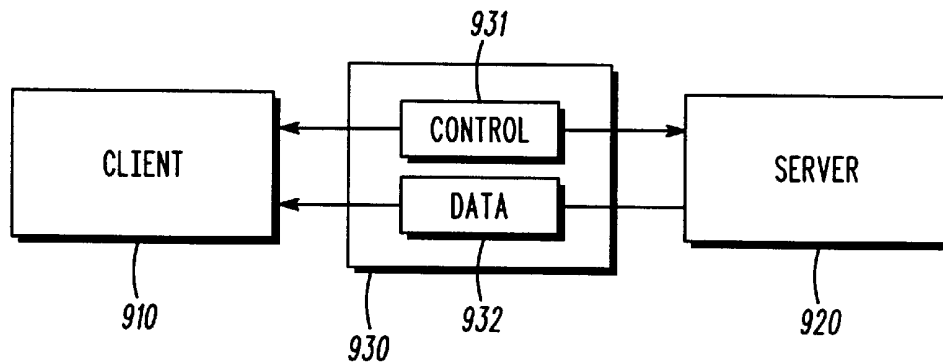


FIG. 9

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