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**Hatanaka et al.**

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(54) **DIGITAL SIGNAL RECORDING DEVICES, DIGITAL SIGNAL RECORDING/ PLAYBACK DEVICES, AND DIGITAL SIGNAL RECEIVING/RECORDING/PLAYBACK DEVICES**

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(73) Assignee: **Hitachi, Ltd.**, Tokyo (JP)

(\*) 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.: **09/090,919**

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(30) **Foreign Application Priority Data**

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(51) **Int. Cl.<sup>7</sup>** ..... **H04N 5/91**

(52) **U.S. Cl.** ..... **386/98; 386/111; 386/124**

(58) **Field of Search** ..... 386/131, 124, 386/112, 109, 98, 111; 348/441, 536, 554, 542, 510, 705, 706, 521, 522; H04N 5/91

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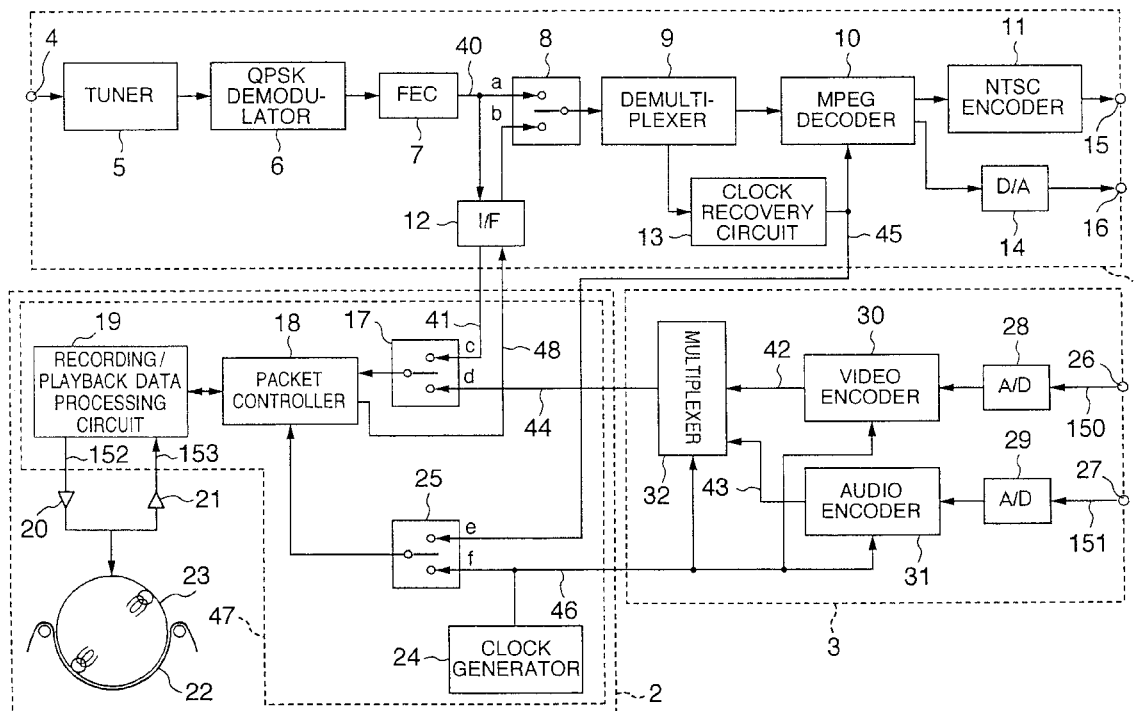
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(57) **ABSTRACT**

In a recording device, a recording and playback device and a receiving, recording and playback device in a system for receiving, recording and playing back a digital signal, a digital signal recording and playing back device having the function of converting an analog television signal to a digital television signal, and recording and reproducing the digital signal includes A/D converters for an analog video signal and an analog audio signal, encoders for compressing the analog video and audio signals, encoders for compressing the video and audio signals, a multiplexer for multiplexing the compressed video and audio signals, and a selector for selecting one of a received digital signal and the compressed multiplexed signal.

**3 Claims, 9 Drawing Sheets**



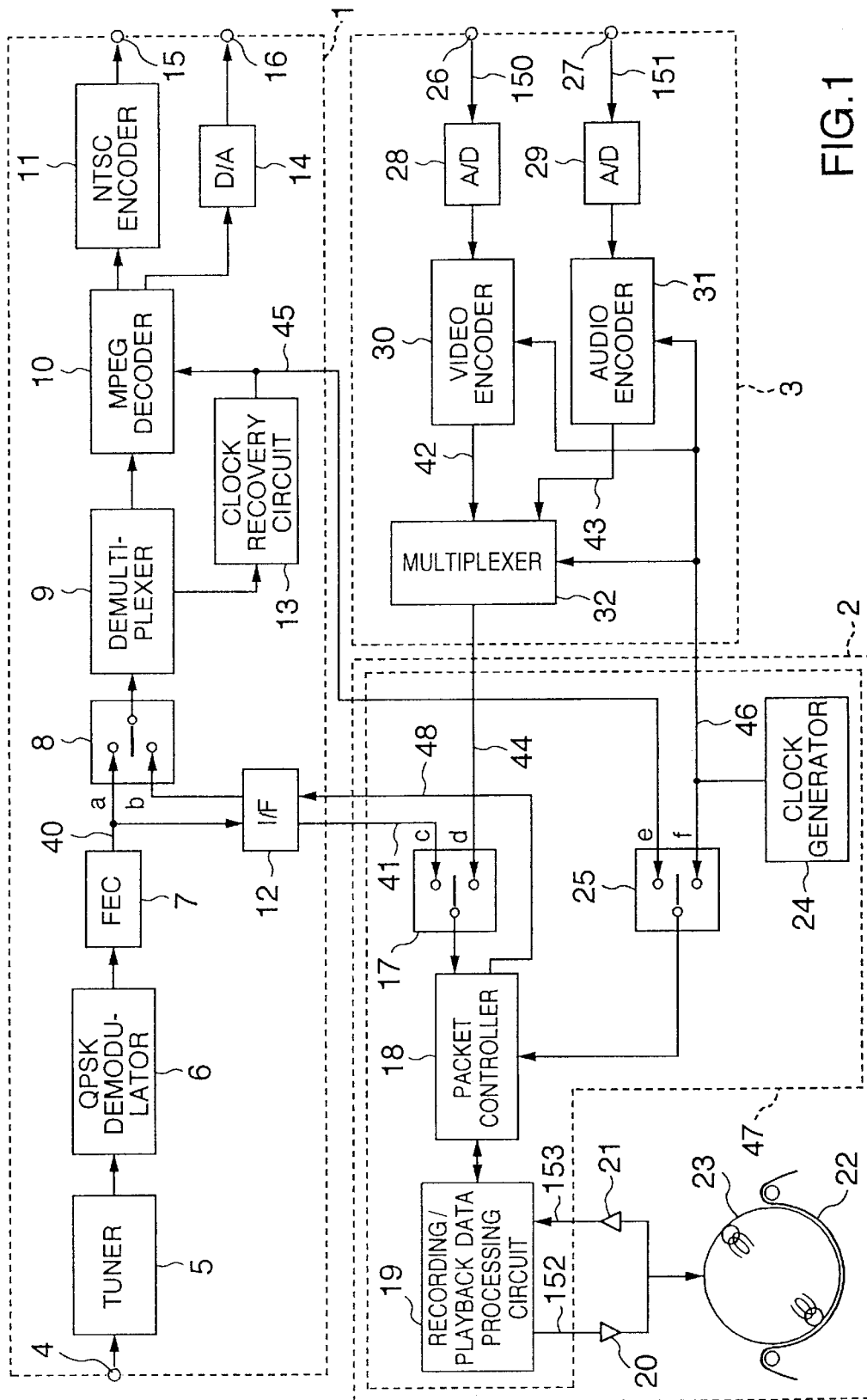
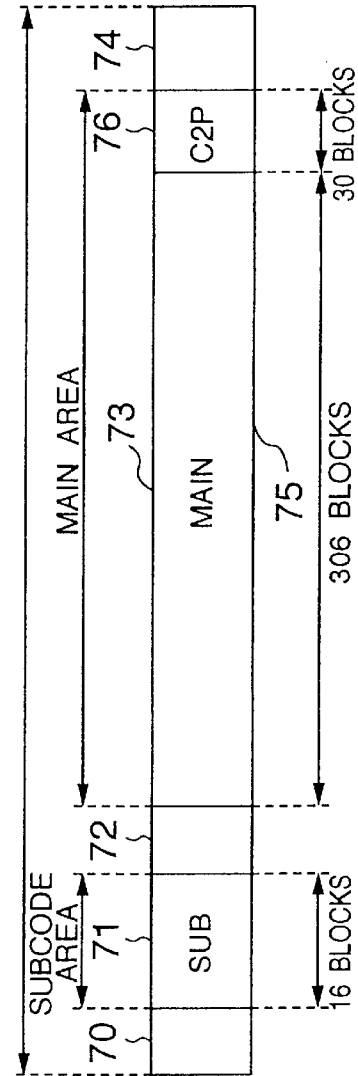
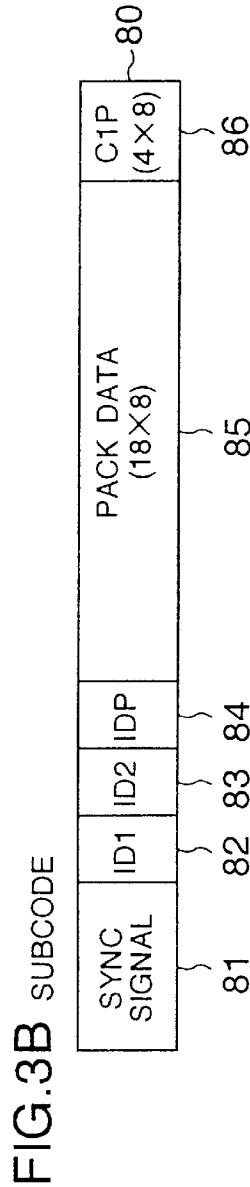
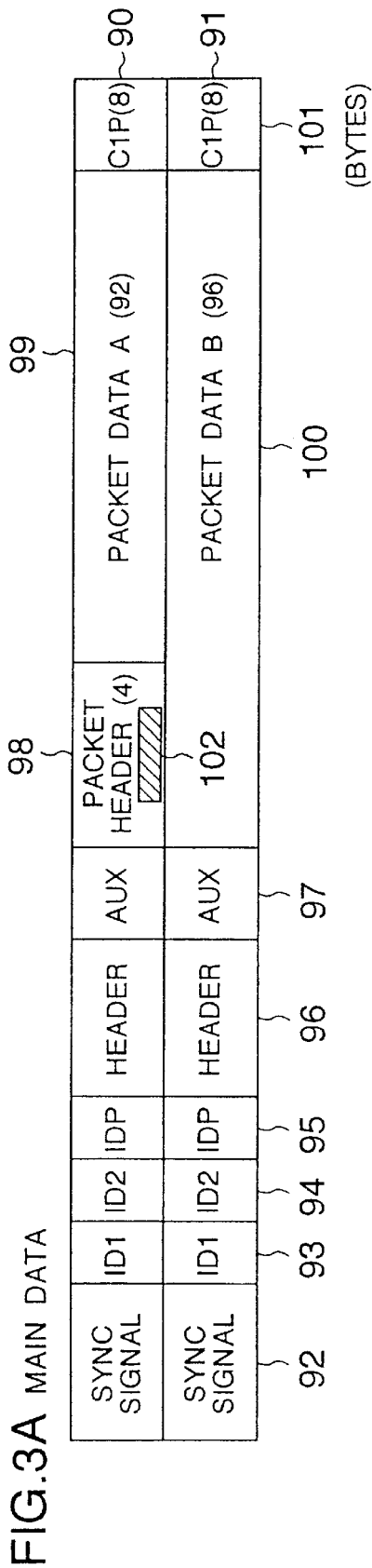
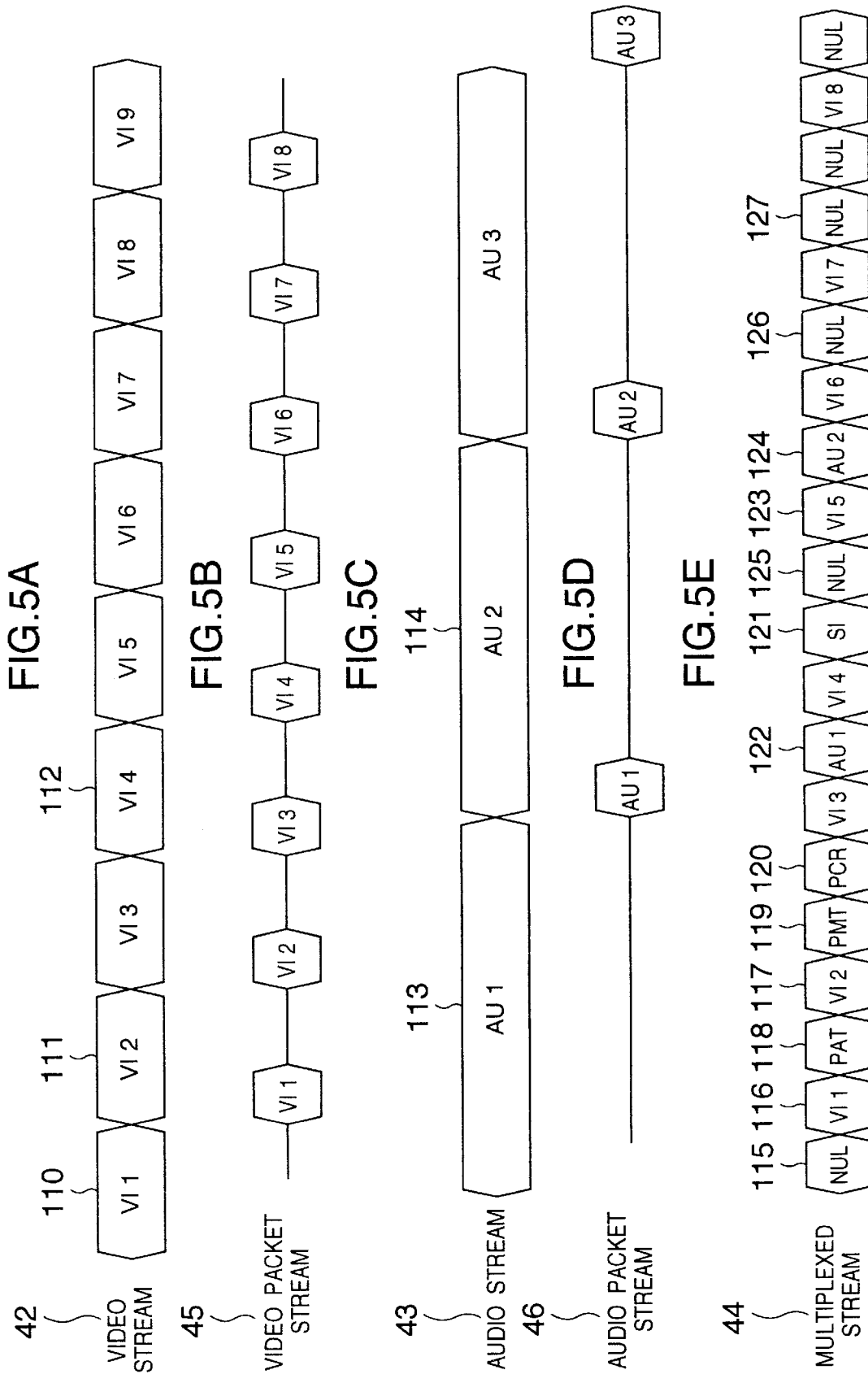


FIG. 1







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