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**Vallone et al.**

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(54) **MULTIMEDIA VISUAL PROGRESS INDICATION SYSTEM**

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**Related U.S. Application Data**

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

(52) **U.S. Cl.** ..... **386/68; 386/46**

(58) **Field of Search** ..... 386/68, 69, 52, 386/55, 46, 1, 4, 6, 70, 82, 125, 126, 124, 45, 40, 83; 360/32; H04N 5/91

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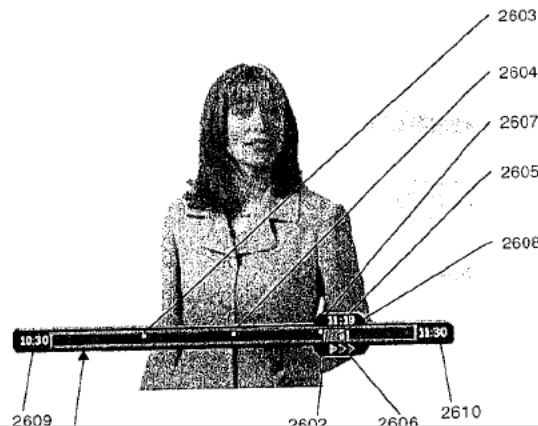
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(57) **ABSTRACT**

A multimedia visual progress indication system that provides a trick play bar that is overlaid onto the program material or displayed on a dedicated display. A cache bar inside of the trick play bar indicates the length of a recording session or the length of stored program material and expands to the right when material is being recorded. Every half hour (or selected increment), the cache bar slides to the left. Time marks are displayed inside the trick play bar giving the user a visual reference point from which to judge the current time and visual time reference points. The time marks are in any increment of time needed. The total length of the stored program material or next time or counter increment in the recording cycle is displayed on the right hand end of the trick play bar. A position indicator moves within the trick play bar and tells the user visually where his current position is within the program material. A slider moves along the trick play bar and on top of the cache bar and is linked to the position indicator and can be moved anywhere within the cache bar by the user. The slider displays the numeric time or counter mark of the current position. A mode indicator is positioned below the slider and follows the slider's movement and displays whether the user is in play, record, pause, slow play, fast play, fast forward (1x, 2x, and 3x), slow reverse play, slow reverse, and fast reverse (1x, 2x, and 3x) modes. The 1x, 2x, and 3x speeds are adjustable by the system to be any variable desired (e.g., 2x, 16x, and 32x). The trick play bar and its associated components are displayed for a predetermined time period when overlaid onto the program material.

**39 Claims, 34 Drawing Sheets**



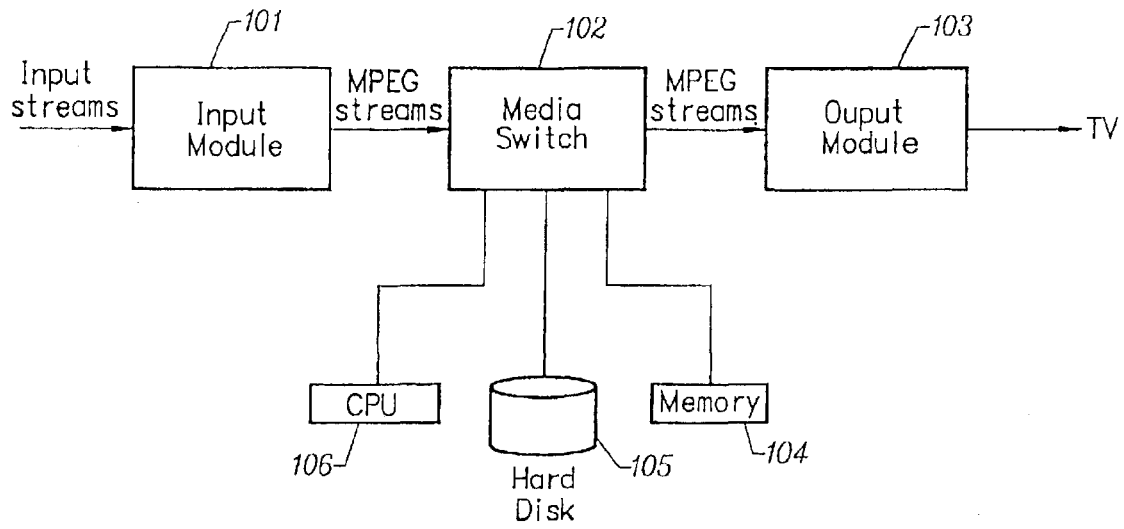


FIG. 1

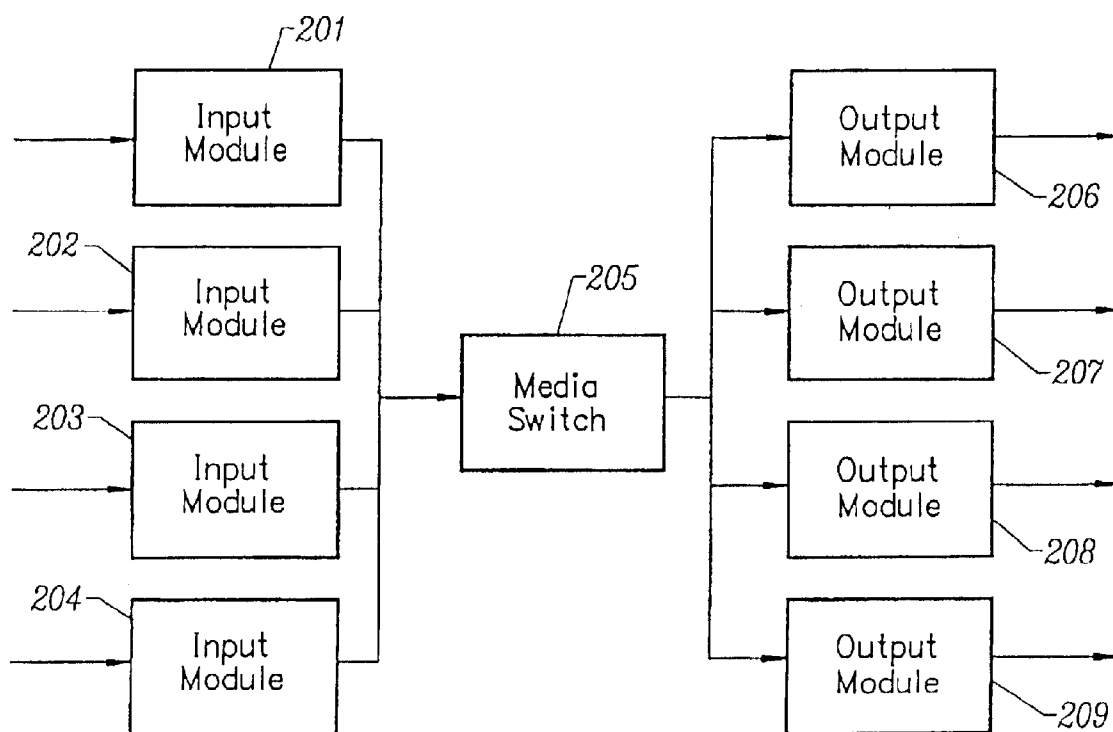


FIG. 2

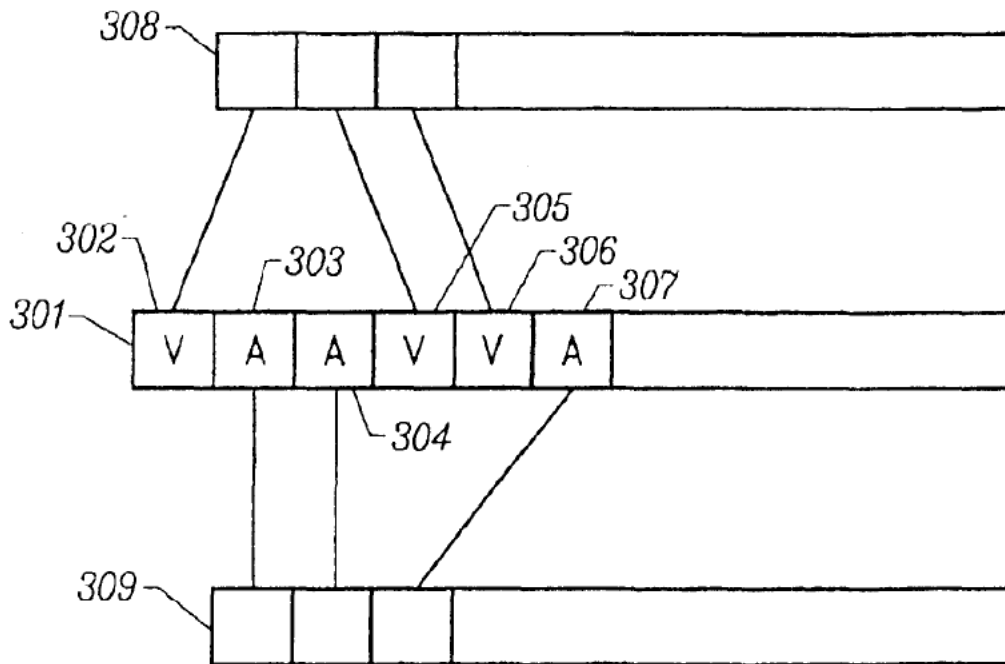


FIG. 3

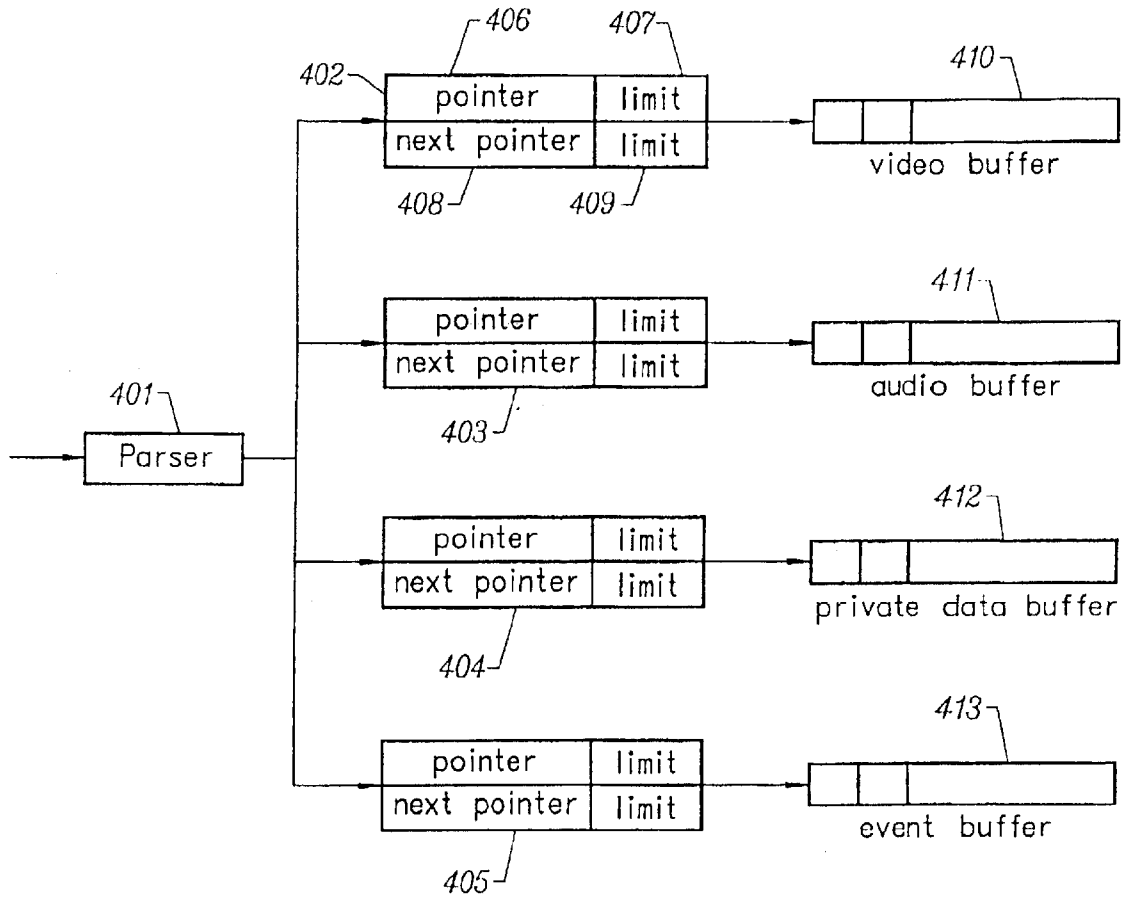


FIG. 4

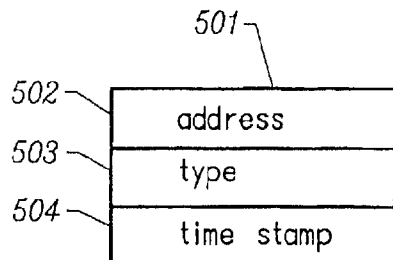


FIG. 5

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