

EXHIBIT E

(12) **United States Patent**
Watkins

(10) **Patent No.: US 6,341,375 B1**
 (45) **Date of Patent: *Jan. 22, 2002**

(54) **VIDEO ON DEMAND DVD SYSTEM**

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(73) Assignee: **LSI Logic Corporation, Milpitas, CA (US)**

(*) Notice: This patent issued on a continued prosecution application filed under 37 CFR 1.53(d), and is subject to the twenty year patent term provisions of 35 U.S.C. 154(a)(2).

Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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(57) **ABSTRACT**

An apparatus comprising a drive server, a control server and one or more decoder devices. The drive server may be configured to present one or more compressed data streams in response to one or more first control signals. The control server may be configured to present one or more of the compressed data streams in response to (i) one or more request signals and (ii) the one or more compressed data streams. The decoder devices may be configured to present a decoded video signal and a decoded audio signal in response to (i) one or more second control signals and (ii) the one or more compressed data streams. The navigation software, which traditionally is processed local to the decoder, may be processed on the control server. The control server may be enabled to control the remote decoder.

(21) Appl. No.: **09/353,216**

(22) Filed: **Jul. 14, 1999**

(51) Int. Cl.⁷ **H04N 7/173**

(52) U.S. Cl. **725/100; 709/219; 709/217**

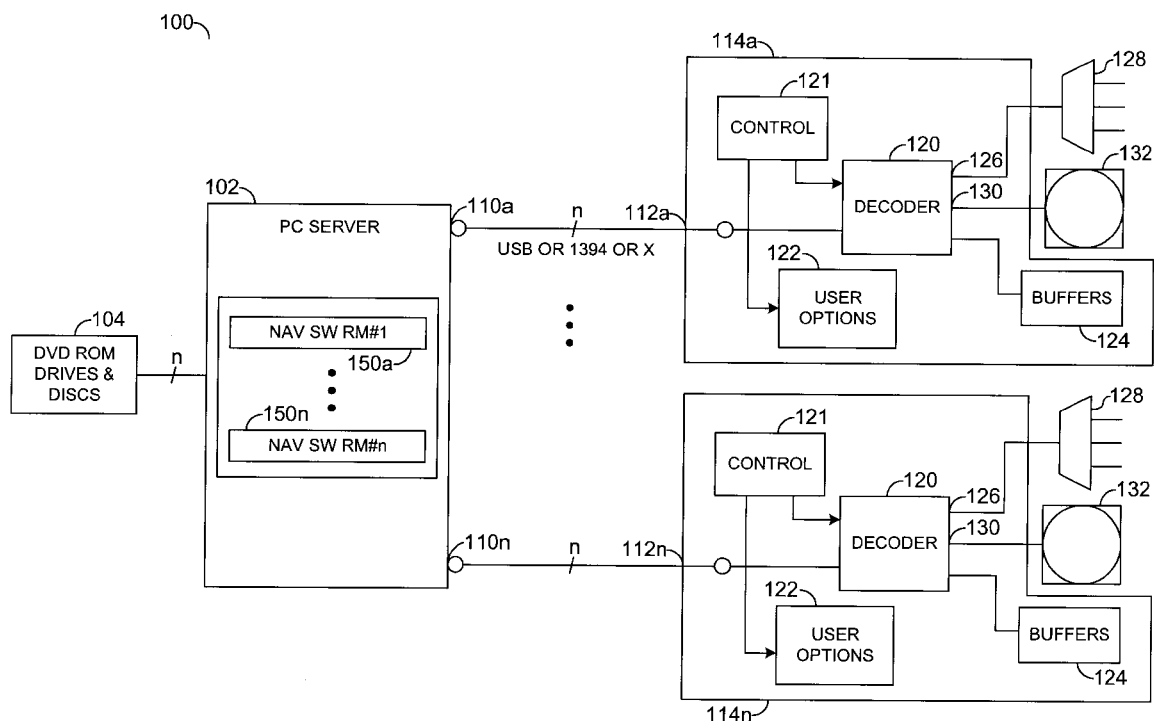
(58) Field of Search 709/217-219, 709/209, 224, 247; 348/7-9, 12, 13; 725/87, 91, 92, 93, 78

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19 Claims, 5 Drawing Sheets



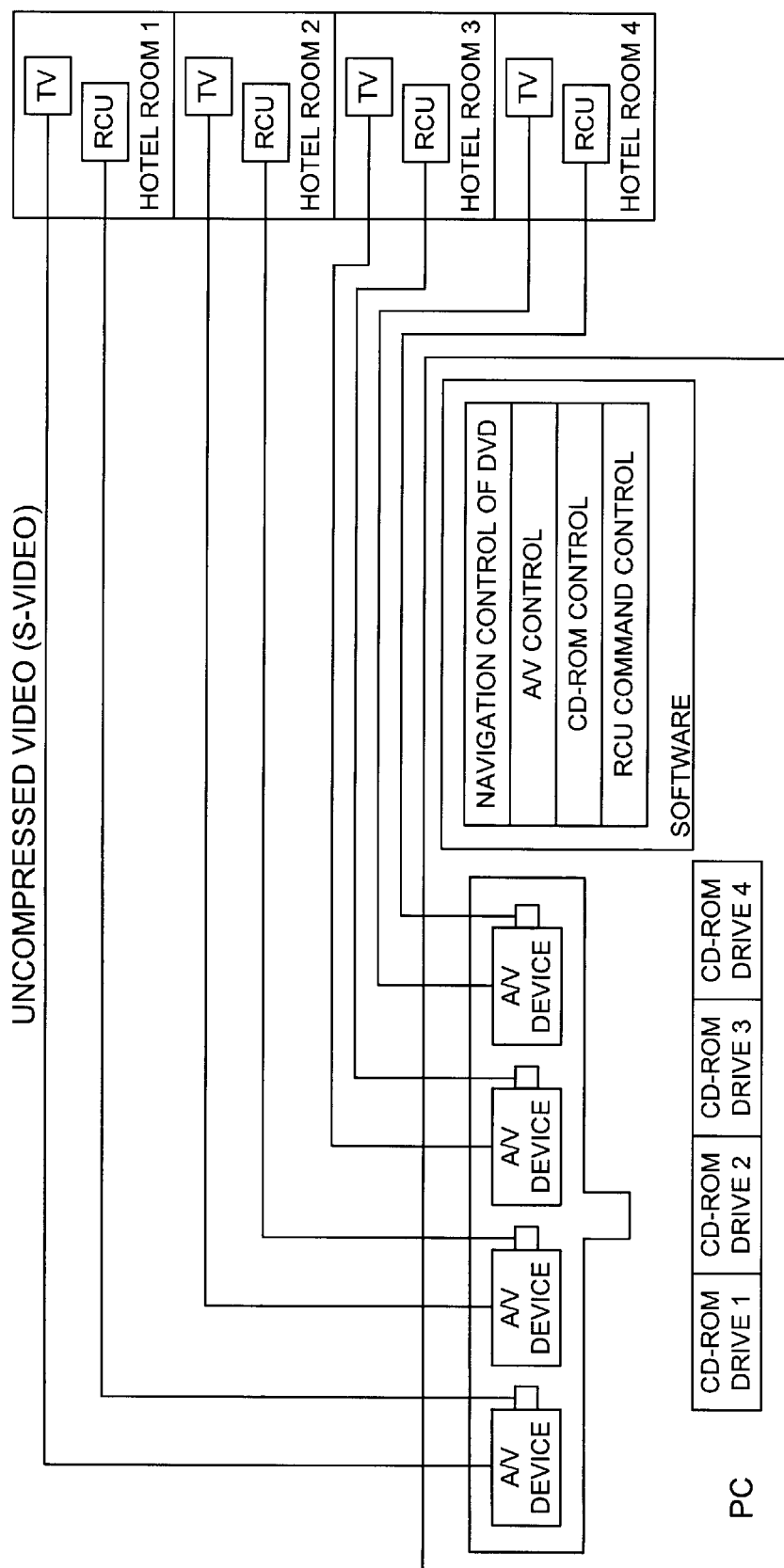


FIG. 1
(CONVENTIONAL)

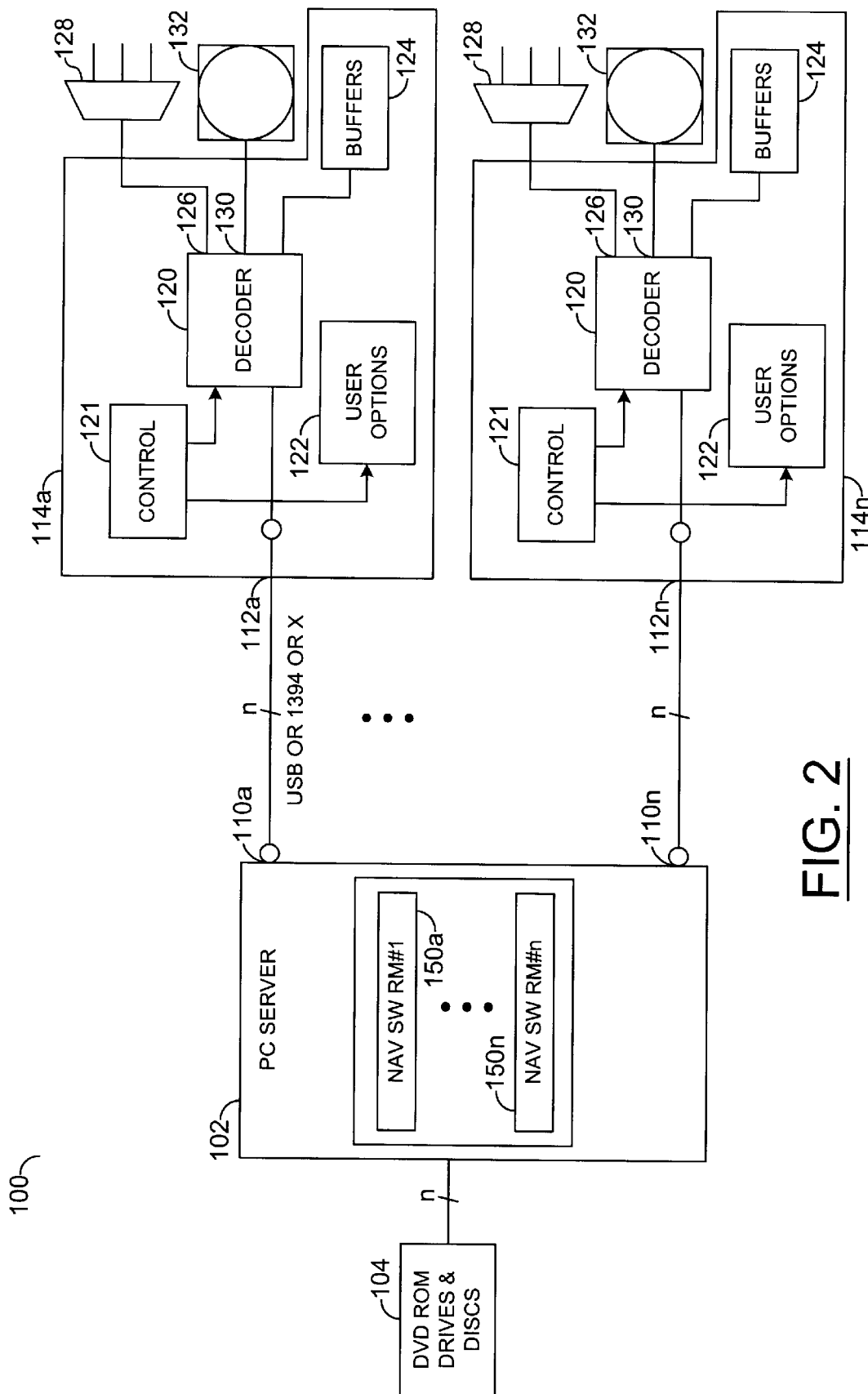


FIG. 2

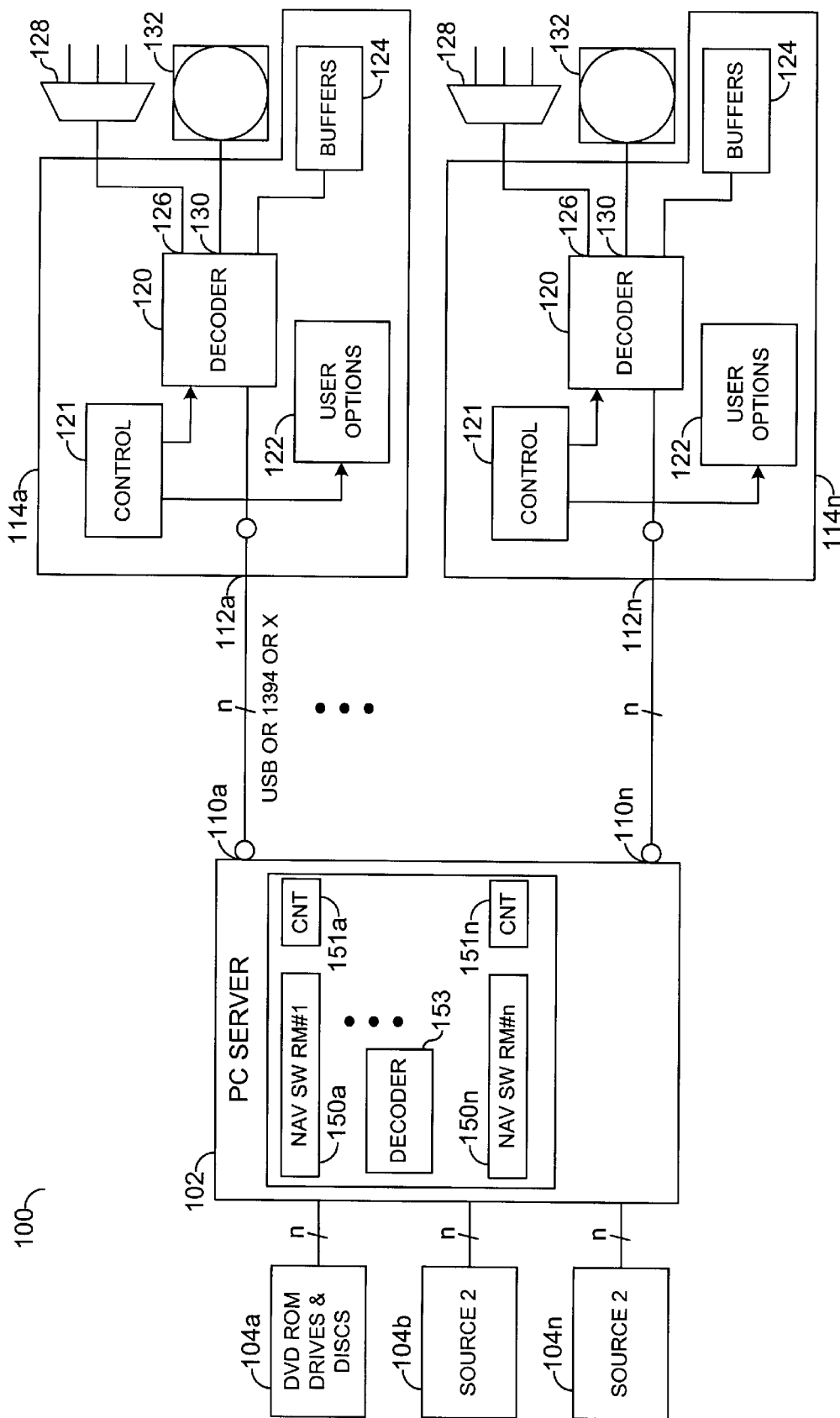


FIG. 3

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