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### (12) United States Patent Gonder et al.

### (54) PLAYLIST MENU NAVIGATION

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- (51) Int. Cl. *H04N 7/173* (2011.01)
  (52) U.S. Cl.

See application file for complete search history.

#### (56) **References Cited**

DOCKE

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### U.S. PATENT DOCUMENTS

5,623,613 A *	4/1997	Rowe et al 715/841
5,862,312 A	1/1999	Mann et al.
5,996,089 A	11/1999	Mann et al.
6,321,345 B1	11/2001	Mann et al.
6,449,248 B1	9/2002	Trasatti et al.
6,449,730 B2	9/2002	Mann et al.
6,557,114 B2	4/2003	Mann et al.
6,567,926 B2	5/2003	Mann et al.
6,574,745 B2	6/2003	Mann et al.
6,642,939 B1*	11/2003	Vallone et al 715/721
6,754,439 B1	6/2004	Hensley et al.

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# (45) **Date of Patent:** Apr. 30, 2013

7,124,424 B2*	10/2006	Gordon et al 725/43
2001/0014975 A1	8/2001	Gordon et al.
2002/0032882 A1	3/2002	Mann et al.
2002/0059394 A1	5/2002	Sanders
2003/0002862 A1*	1/2003	Rodriguez et al 386/125
2003/0191983 A1	10/2003	Mann et al.
2004/0015986 A1	1/2004	Carver et al.
2004/0078822 A1*	4/2004	Breen et al 725/86
2005/0005308 A1*	1/2005	Logan et al 725/135
2005/0060745 A1	3/2005	Riedl et al.
2005/0166017 A1	7/2005	Mann et al.
2006/0112434 A1*	5/2006	Banker et al 726/27
2006/0259940 A1*	11/2006	Fries 725/131

### OTHER PUBLICATIONS

"Concurrent Files Patent for Technology that Enables Broadband Operators to Improve VOD Marketing by Using Video to Sell More On-Demand Content," Press Release, Apr. 30, 2004, Concurrent Computer Corporation, Duluth, USA.

\* cited by examiner

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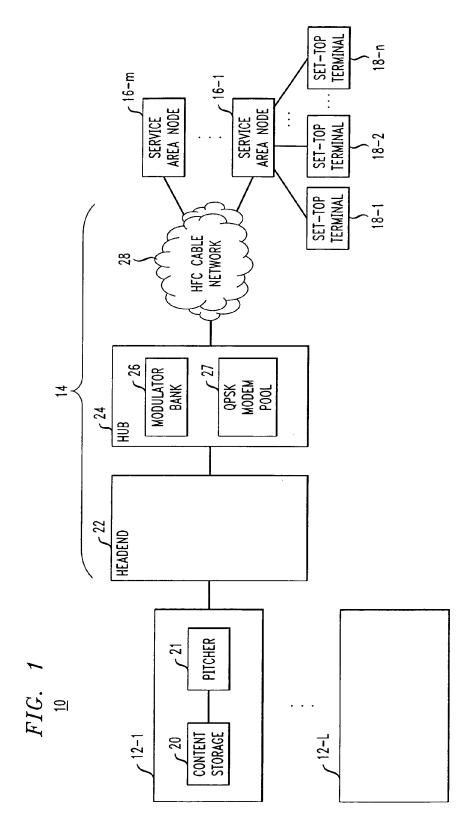
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### (57) **ABSTRACT**

In one embodiment, a method of operating a communications system is disclosed comprising receiving a request for establishment of a session from a terminal, establishing the session with the terminal, and providing at least one navigation video segment to the terminal, via the session. The communications system may be a source of programming, such as a cable system, and the terminal may be a set-top terminal coupled to a display device. The navigation video segment may be used by the terminal to create selection menus to be displayed for user navigation. The video segments may be rich media video segments. A playlist may be generated comprising an indexed listing of a plurality of available video segments. The playlist may facilitate retrieval of video segments requested by a terminal. Communications systems, terminals and methods of operating a terminal are disclosed, as well.

### 40 Claims, 8 Drawing Sheets

~ 300 PROVIDE NAVIGATION CATALOGS TO THE TERMINAL 302 RECEIVE REQUEST TO ESTABLISH A SESSION - 304 WITH A TERMINAL AND ESTABLISH SESSION GENERATE PLAYLIS · 306 PROVIDE FIRST VIDEO SEGMENT ON PLAYLIST TO TERMINAL PROVIDE DESCRIPTORS TO THE TERMINAL RECEIVE NPT START AND END TIMES FOR A BSEQUENT VIDEO SEGMENT FROM THE TERMI 312 IDENTIFY VIDEO SEGMENT ON PLAYLIST 314 BASED ON NPT START AND END TIME: LOCATE IDENTIFIED VIDEO SEGMENT ~ 316 AND PROVIDE TO THE TERMINAL RECEIVE REQUEST FOR A PROGRAM 7~318 END SESSION 320



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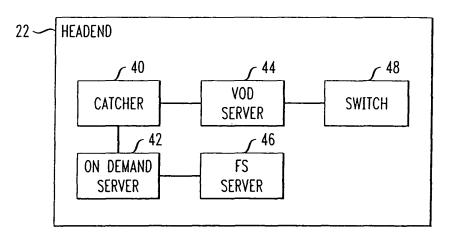
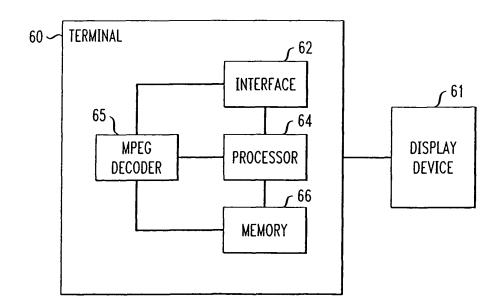


FIG. 3

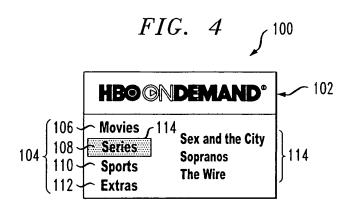


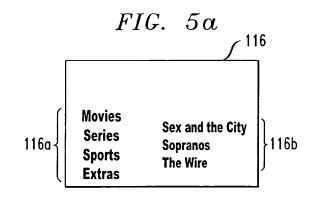
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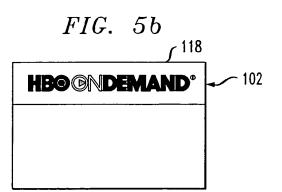
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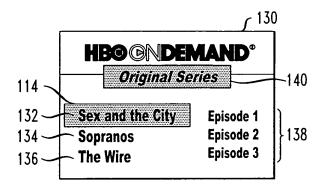




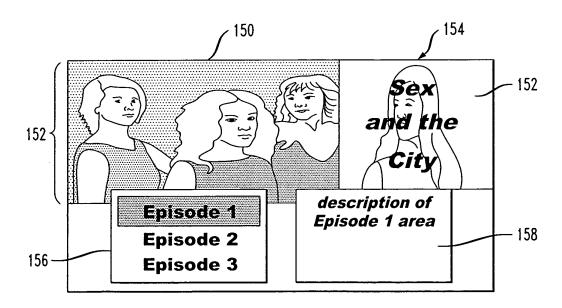


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FIG. 6







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