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(54) **CONTINUOUS MEDIA PLAYBACK SYSTEM CONTROLLED OVER A DISTRIBUTED COMMUNICATION SYSTEM**

6,662,231 B1 * 12/2003 Drosset et al. 709/229
6,741,869 B1 * 5/2004 Lehr 455/557

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(Continued)

OTHER PUBLICATIONS

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

Chain Store Age; DMX Axis: Music Delivery via; Feb. 2000; pp. 2A-3A, 5A-11A.

(Continued)

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(51) **Int. Cl.**
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(57) **ABSTRACT**

(52) **U.S. Cl.** 709/219; 709/217; 709/218; 709/209; 707/1

(58) **Field of Classification Search** 709/219, 709/217; 707/1; 725/1

See application file for complete search history.

A continuous play broadcast system includes a distributed communications system and a playback control device that is connected to the distributed communications system. The playback control device includes an output device, memory that stores digital media files and a continuous play program, and a controller that outputs the digital media files to the output device according to the continuous play program. The media files include at least one of audio, video and announcements. A computer is connected to the distributed communications system. A web server is connected to the distributed communications system and to a master library of the digital media files. The computer accesses the web server via the distributed communications system to alter the continuous play program for the playback control device. The computer includes a browser module for accessing the web server and the web server transmits executable files to the computer for creating the continuous play program. The executable files are at least one of Active-X® components, Java Applets® and Java Script®. The continuous play broadcast system can also deliver video files and announcement files using the continuous play program. The computer and the playback control device can be integrated.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,541,917	A	7/1996	Farris	
5,557,658	A	9/1996	Gregorek et al.	
5,616,876	A *	4/1997	Cluts	84/609
5,726,909	A *	3/1998	Krikorian	700/94
5,790,423	A *	8/1998	Lau et al.	700/94
5,955,710	A *	9/1999	DiFranza	187/396
5,996,015	A *	11/1999	Day et al.	709/226
6,064,379	A *	5/2000	DeMoney	715/300.1
6,170,060	B1 *	1/2001	Mott et al.	726/29
6,243,725	B1 *	6/2001	Hempleman et al.	715/530
6,246,672	B1 *	6/2001	Luamsky	370/310
6,308,204	B1 *	10/2001	Nathan et al.	709/221
6,389,467	B1 *	5/2002	Eyal	709/223
6,434,621	B1 *	8/2002	Pozzillo et al.	709/231
6,446,080	B1 *	9/2002	Van Ryzin et al.	707/104.1
6,526,411	B1 *	2/2003	Ward	707/102
6,546,427	B1 *	4/2003	Ehrlich et al.	709/231
6,587,127	B1 *	7/2003	Locke et al.	345/765

55 Claims, 19 Drawing Sheets

