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(12) **United States Patent Strober**

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(54) **PLAY CONTROL OF CONTENT ON A DISPLAY DEVICE**

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**G06F 3/00** (2006.01)

(52) **U.S. Cl.** ..... **715/740; 715/716; 715/734; 715/738; 715/751; 715/764; 715/835**

(58) **Field of Classification Search** ..... 715/716, 715/738, 734, 740, 751, 764, 835

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

7,058,356 B2 6/2006 Slotznick  
7,330,875 B1 \* 2/2008 Parasnis et al. .... 709/204  
7,424,718 B2 \* 9/2008 Dutton ..... 719/318  
7,433,922 B2 \* 10/2008 Engstrom ..... 709/205

7,440,972 B2 \* 10/2008 Oetzel ..... 386/252  
7,453,454 B2 \* 11/2008 Allen et al. .... 345/418  
7,769,827 B2 \* 8/2010 Girouard et al. .... 709/219  
7,774,708 B2 \* 8/2010 Bell et al. .... 715/738  
7,814,144 B2 \* 10/2010 Koyama et al. .... 709/203  
7,835,505 B2 11/2010 Toyama et al.

(Continued)

**FOREIGN PATENT DOCUMENTS**

CN 101534449 9/2009

(Continued)

**OTHER PUBLICATIONS**

Ask Search Internet Search, session identifier random.\*

(Continued)

*Primary Examiner* — Boris Pesin

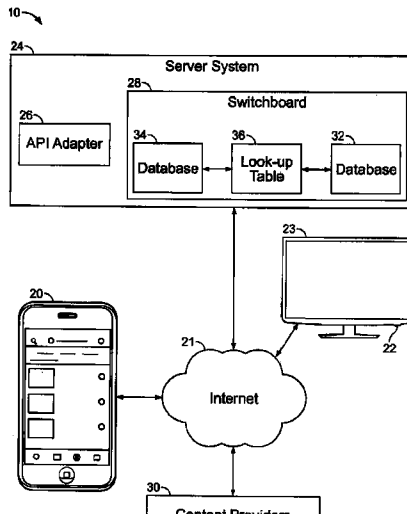
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(57) **ABSTRACT**

A system for presenting and controlling content on a display device includes a network, a server system coupled to the network and comprising one or more servers, a display device coupled to the network and having a display, and a personal computing device operable to transmit a first message according to a specified format over the network to the server system. The server system stores an association between the personal computing device and the display device. The first message identifies user-selected content and a media player to play the content. The server system is operable, in response to receiving the first message from the personal computing device, to provide to the display device a second message identifying the user-selected content and the media player to play the content. In response to receiving the second message, the display device is operable to obtain a first media player needed to play the content, to load the media player and to present the content on the display.

**26 Claims, 9 Drawing Sheets**



U.S. PATENT DOCUMENTS

7,849,485	B2	12/2010	Paik et al.	
8,086,679	B2*	12/2011	Nobori et al.	709/206
8,171,507	B2*	5/2012	Hironaka et al.	725/12
2002/0075332	A1*	6/2002	Geilfuss et al.	345/859
2002/0120666	A1*	8/2002	Landsman et al.	709/200
2002/0129102	A1*	9/2002	Landsman et al.	709/203
2002/0133518	A1*	9/2002	Landsman et al.	707/513
2002/0198778	A1*	12/2002	Landsman et al.	705/14
2003/0004804	A1*	1/2003	Landsman et al.	705/14
2003/0005000	A1*	1/2003	Landsman et al.	707/513
2003/0018885	A1*	1/2003	Landsman et al.	713/2
2003/0023488	A1*	1/2003	Landsman et al.	705/14
2003/0028565	A1*	2/2003	Landsman et al.	707/513
2003/0142127	A1*	7/2003	Markel	345/738
2003/0182663	A1*	9/2003	Gudorf et al.	725/110
2003/0193520	A1*	10/2003	Oetzel	345/723
2004/0008972	A1*	1/2004	Haken	386/83
2004/0088728	A1*	5/2004	Shimizu	725/89
2004/0268224	A1*	12/2004	Balkus et al.	715/500.1
2004/0268451	A1*	12/2004	Robbin et al.	999/999.999
2005/0034151	A1	2/2005	Abramson	
2005/01144305	A1*	6/2005	Fegan et al.	709/231
2006/0083194	A1	4/2006	Dhrijaj et al.	
2006/0098624	A1*	5/2006	Morgan et al.	370/352
2006/0101098	A1*	5/2006	Morgan et al.	707/204
2006/0200832	A1*	9/2006	Dutton	719/318
2006/0203758	A1	9/2006	Tee et al.	
2006/0263038	A1*	11/2006	Gilley	386/52
2006/0265657	A1*	11/2006	Gilley	715/730
2007/0050054	A1*	3/2007	Sambandam Guruparan et al.	700/65
2007/0055986	A1*	3/2007	Gilley et al.	725/34
2007/0083540	A1*	4/2007	Gundla et al.	707/101
2007/0094408	A1*	4/2007	Gundla et al.	709/231
2007/0112785	A1*	5/2007	Murphy et al.	707/10
2007/0202923	A1	8/2007	Jung et al.	
2007/0288715	A1	12/2007	Boswell et al.	
2008/0008439	A1*	1/2008	Liu et al.	386/46
2008/0028037	A1*	1/2008	Moyer et al.	709/217
2008/0034394	A1*	2/2008	Jacobs et al.	725/98
2008/0077526	A1	3/2008	Arumugam	
2008/0126943	A1*	5/2008	Parasnis et al.	715/730
2008/0140849	A1*	6/2008	Collazo	709/229
2008/0155600	A1	6/2008	Klappert et al.	
2008/0187279	A1*	8/2008	Gilley et al.	386/52
2008/0189617	A1*	8/2008	Covell et al.	715/738
2008/0267369	A1*	10/2008	Parlomas et al.	379/93.01
2008/0270881	A1*	10/2008	Meyer et al.	715/202
2008/0301737	A1*	12/2008	Hjelmeland Almas et al.	725/61
2009/0049373	A1*	2/2009	Sharma et al.	715/234
2009/0094331	A1*	4/2009	Nobori et al.	709/205
2009/0164641	A1*	6/2009	Rogers et al.	709/227
2009/0228919	A1	9/2009	Zott et al.	
2009/0254827	A1*	10/2009	Gonze et al.	715/716
2009/0259944	A1*	10/2009	Wu	715/738
2009/0282470	A1*	11/2009	Yang et al.	726/12
2010/0027974	A1	2/2010	Ansari	
2010/0094728	A1*	4/2010	Denning et al.	705/27
2010/0137028	A1	6/2010	Farris et al.	
2010/0138746	A1*	6/2010	Zarom	715/720
2010/0174993	A1*	7/2010	Pennington et al.	715/738
2010/0198860	A1*	8/2010	Burnett et al.	707/769
2010/0205628	A1	8/2010	Davis et al.	
2010/0265939	A1*	10/2010	Parlomas et al.	370/352
2010/0281042	A1*	11/2010	Windes et al.	707/756
2010/0283586	A1*	11/2010	Ikeda et al.	340/10,42
2010/0313135	A1*	12/2010	Johnson et al.	715/738
2010/0325552	A1*	12/2010	Sloo et al.	715/738
2011/0007901	A1*	1/2011	Ikeda et al.	380/270
2011/0014972	A1*	1/2011	Herrmann et al.	463/25
2011/0030020	A1	2/2011	Halltunen	
2011/0035692	A1*	2/2011	Sandone et al.	715/769
2011/0060998	A1*	3/2011	Schwartz et al.	715/738
2011/0090898	A1*	4/2011	Patel et al.	370/352
2011/0107227	A1*	5/2011	Rempell et al.	715/738

2011/0156879	A1*	6/2011	Matsushita et al.	340/10.1
2011/0161396	A1*	6/2011	Filbrich et al.	709/203
2011/0214148	A1*	9/2011	Gossweiler et al.	725/46
2011/0228768	A1*	9/2011	Gelter et al.	370/389
2011/0231265	A1*	9/2011	Brown et al.	705/14.73
2011/0231565	A1*	9/2011	Gelter et al.	709/231
2011/0231566	A1*	9/2011	Gelter et al.	709/231
2011/0289419	A1*	11/2011	Yu et al.	715/738
2011/0296454	A1*	12/2011	Xiong et al.	725/30
2011/0296465	A1	12/2011	Krishnan et al.	
2012/0072846	A1*	3/2012	Curtis	715/738
2012/0110464	A1*	5/2012	Chen et al.	715/738
2012/0166560	A1*	6/2012	Nobori et al.	709/206

FOREIGN PATENT DOCUMENTS

CN	101577650	11/2009
CN	101778198	7/2010
CN	101815073	8/2010

OTHER PUBLICATIONS

Webopedia computer dictionary, session cookie.\*  
 Webopedia computer dictionary, web identifier.\*  
 Webopedia computer dictionary, user session.\*  
 www.vbulletin.com, Best way to generate Random, Unique ID's.\*  
 www.vbulletin.com, Best way to generate Random, Unique ID's, Internet Archive Wayback Machine, Jan. 16, 2009.\*  
 webopedia-com—session-identifier—Nov. 19, 2011.\*  
 www.vbulletin.com—best-way-to-generate-random-unique-session-ids—Nov. 19, 2011.\*  
 www.vbulletin.com—best-way-to-generate-random-unique-session-ids-wayback-archive—Nov. 19, 2011.\*  
 ask—search—q=mobile+device+server+display+device&q&s.\*  
 Ask—Search—q=session+identifier+random&q&src=0&o=0&I—Nov. 19, 2011.\*  
 webopedia-com—session\_cookie—Nov. 19, 2011.\*  
 webopedia-com—user\_session—Nov. 19, 2011.\*  
 Ask Search Internet Search, session identifier random, printed on Nov. 19, 2011.  
 Webopedia computer dictionary, session cookie, printed on Nov. 19, 2011.  
 Webopedia computer dictionary, web identifier, printed on Nov. 19, 2011.  
 Webopedia computer dictionary, user session, printed on Nov. 19, 2011.  
 www.vbulletin.com, Best way to generate Random, Unique ID's, printed on Nov. 19, 2011.  
 Officials communication from the USPTO in U.S. Appl. No. 13/245,001, dated Dec. 8, 2011.  
 U.S. Appl. No. 13,245,001, filed Sep. 26, 2011.  
 Hachman, M., "Snapstick's Media Streaming App/Box: Hands on," www.pcmag.com/article2/0,2817,2375455,00.asp, 2 pages, (Jan. 8, 2011).  
 Dolcourt, J., CES: Snapstick takes on Apple TV, Google TV, http://news.cnet.com/8301-17938\_105-20025100-1.html, 3 pages, (Dec. 9, 2010).  
 Shaivitz, M., "The Web to Your TV, With a Flick of a Wrist? Slapstick Says Yes," http://techcocktail.com/the-web-to-our-tv-with-a-flick-of-a-wrist-slapstick-says-yes-2010-12, 2 pages, (Dec. 10, 2010).  
 Snapstick—Home, "Snapstick," http://www.snapstick.com/, 2 pages, printed on Mar. 2, 2011.  
 Paul, I., Hands on: YouTube Leanback, PCWORLD, http://www.peworld.com/article/200769/hands\_on\_youtube\_leanback.html, 3 pages, (Jul. 9, 2010).  
 Using AirPlay, Article HT4437, http://support.apple.com/kb/HT4437, 3 pages, (Apr. 18, 2011).  
 Cheng, J., "Stream AirPlay video to regular TV? Apple might make it happen," http://arstechnica.com/apple/news/2011/03/stream-air-play-video-to-a-regular-tv-apple-migh . . . , 1 page, printed on Jun. 7, 2011.  
 "Using the Play To Feature to stream media," http://windows.

“YouTube—Leanback,” <http://www.youtube.com/t/leanback>, 1 page, printed on Jun. 7, 2011.

“Yahoo!7 TV Guide for iPhone, iPod touch and iPad on the iTunes App Store,” <http://itunes.apple.com/au/app/yahoo-7-tv-guide/id42471992?mt=8>, 2 pages, printed on Jun. 7, 2011.

Hu, C., et al., “Mobile Media Content Sharing in UPnP-Based Home Network Environment,” *Journal of Information Science and Engineering* 24, 1753-1769. (2008).

Fallahkhair, S., et al., “Dual Device User interface Design for Ubiquitous Language Learning: Mobile Phone and Interactive Television (iTV),” *Proceedings of the 2005 IEEE Int’l Workshop on Wireless and Mobile Technologies in Education*, 8 pages, 2005.

\* cited by examiner

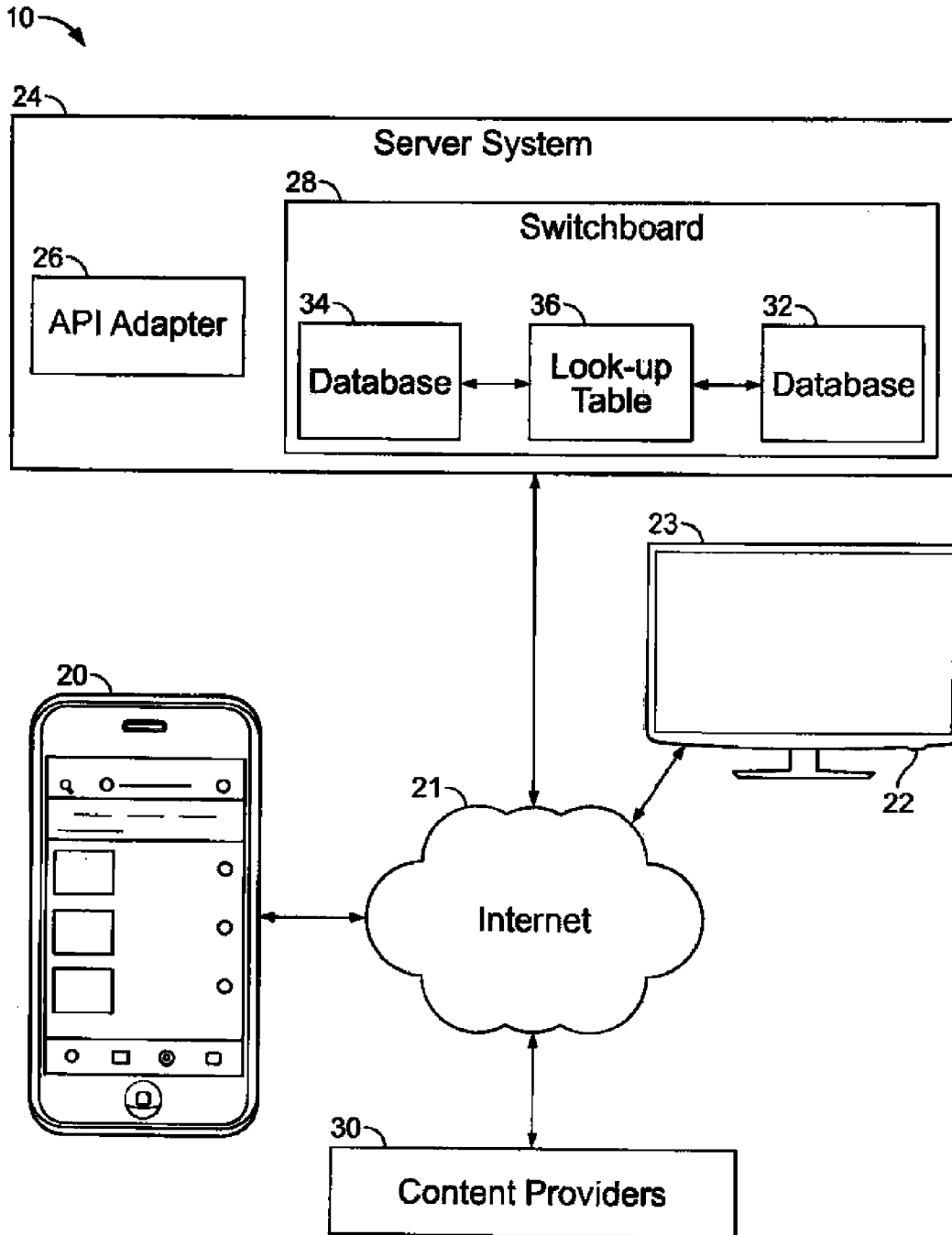


FIG. 1

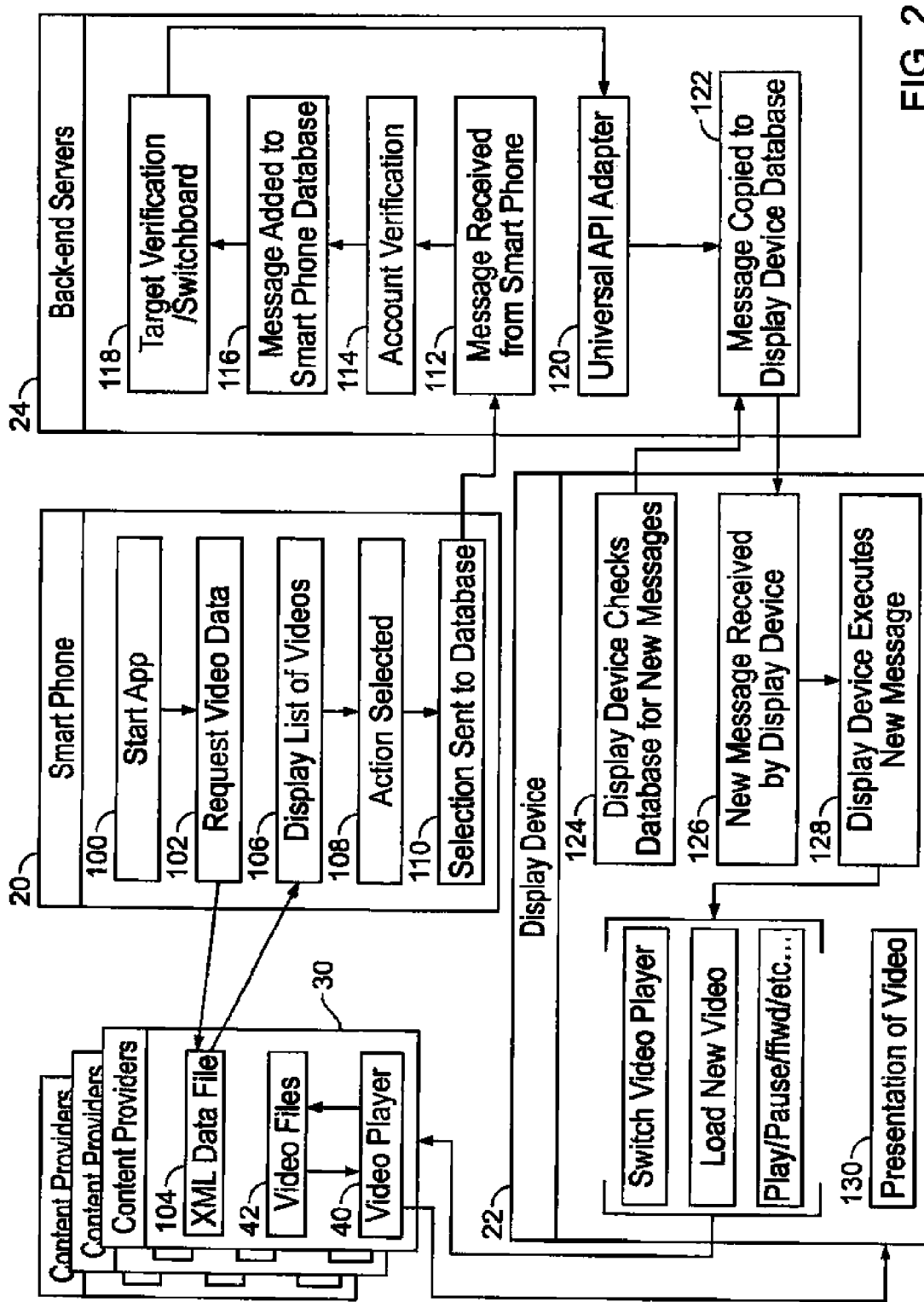


FIG. 2

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