



- (51) **International Patent Classification:**
G06F 15/16 (2006.01) *G06F 17/00* (2006.01)
- (21) **International Application Number:**
PCT/US2013/064523
- (22) **International Filing Date:**
11 October 2013 (11.10.2013)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
13/650,072 11 October 2012 (11.10.2012) US
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(81) **Designated States** (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) **Designated States** (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

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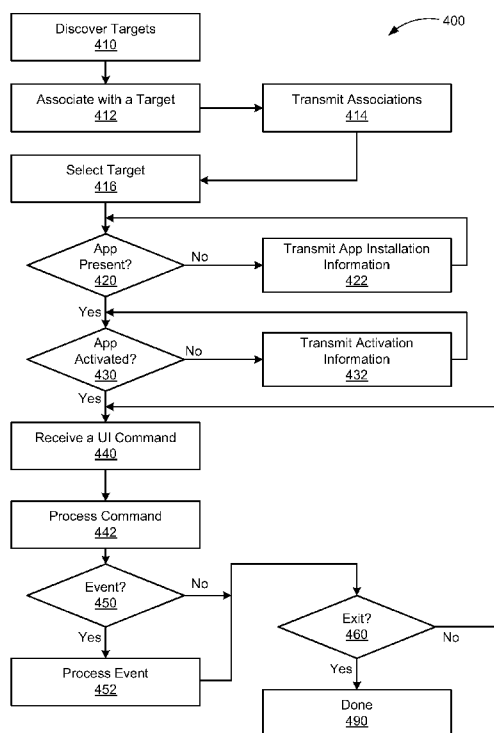
(54) **Title:** A SYSTEM AND METHOD FOR MANAGING PLAYBACK OF STREAMING DIGITAL CONTENT

Figure 4

(57) **Abstract:** One embodiment of the present invention sets forth a technique for managing playback of digital content on two or more different playback devices. A playback device designated as a controller is associated with a playback device designated as a playback target. Association is implemented via a local network discovery protocol. The controller issues commands to the target, which then streams digital content directly from a content server. The controller is able to separately stream related digital content for independent, but synchronized playback. Server mediated operations, such as device activation and application installation, are advantageously enabled by explicit association between the controller and the target.

**Published:****(88) Date of publication of the international search report:**

19 June 2014

- *with international search report (Art. 21(3))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 13/64523

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - G06F 15/16 (2014.01); G06F 17/00 (2014.01)

USPC - 709/201; 715/203

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

USPC: 709/201; 715/203; IPC(8): G06F 15/16 (2014.01); G06F 17/00 (2014.01)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC: 348/207.11, 348/E07.063, 348/E05.006; 370/466, 370/353, 370/465, 370/463, 370/503, 370/493; 375/E07.019; 386/E05.001; 707/706, 707/758; 709/217, 709/218, 709/208, 709/248, 709/219; 715/200, 715/716, 715/704 (keyword limited; terms below)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

PatBase; Google Scholar

Search Terms: target, device, player, unique ID, identifier, content server, request, exchange, communicate, transmit, processor, CPU, network interface, network card, app, application, program, software, title, track, movie, song, local network, LAN, multicast, unicast

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X — Y	US 2012/0124178 A1 (Sparks) 17 May 2012 (17.05.2012), entire document, especially abstract and para [0031]-[0032], [0044], [0046], [0050], [0054]-[0059], [0099]-[0102], [0105], [0109].	1, 9, 17 ----- 2-8, 10-16, 18-20
Y	US 2012/0117182 A1 (Mountanos) 10 May 2012 (10.05.2012), entire document, especially abstract and para [0017], [0023], [0031], claim 2.	2, 10
Y	US 2011/0188439 A1 (Mao et al.) 04 August 2011 (04.08.2011), entire document, especially abstract and para [0003], [0006], [0019], [0021], [0028], [0031], [0036], [0057], [0071], [0084].	3-4, 11-12, 18
Y	US 2010/0229045 A1 (Schultz et al.) 09 September 2010 (09.09.2010), entire document, especially abstract and para [0022]-[0023], [0027]-[0030].	5-8, 13-16, 19-20

☒ Further documents are listed in the continuation of Box C.


* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

20 March 2014 (20.03.2014)

Date of mailing of the international search report

29 APR 2014

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US, Commissioner for Patents
P.O. Box 1450, Alexandria, Virginia 22313-1450

Facsimile No. 571-273-3201

Authorized officer:

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PCT Helpdesk: 571-272-4300

PCT OSP: 571-272-7774

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 13/64523

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2012/0117026 A1 (Cassidy) 10 May 2012 (10.05.2012), entire document.	1-20
A	US 2012/0096121 A1 (Hao et al.) 19 April 2012 (19.04.2012), entire document.	1-20
A	US 2011/0320610 A1 (Ragunathan et al.) 29 December 2011 (29.12.2011), entire document.	1-20
A	US 2011/0138064 A1 (Rieger et al.) 09 June 2011 (09.06.2011), entire document.	1-20
A	US 2012/0185566 A1 (Nagasaka et al.) 19 July 2012 (19.07.2012), entire document.	1-20
A	US 2011/0047598 A1 (Lindley et al.) 24 February 2011 (24.02.2011), entire document.	1-20
A	US 2008/0201748 A1 (Hasek et al.) 21 August 2008 (21.08.2008), entire document.	1-20
A	US 2008/0201751 A1 (Ahmed et al.) 21 August 2008 (21.08.2008), entire document.	1-20
A	US 2012/0210350 A1 (McCoy et al.) 16 August 2012 (16.08.2012), entire document.	1-20
A	US 2008/0137690 A1 (Krantz et al.) 12 June 2008 (12.06.2008), entire document.	1-20
A	US 2012/0047196 A1 (Poder et al.) 23 February 2012 (23.02.2012), entire document.	1-20