

(12) 按照专利合作条约所公布的国际申请

(19) 世界知识产权组织
国际局

(43) 国际公布日
2013 年 12 月 5 日 (05.12.2013)



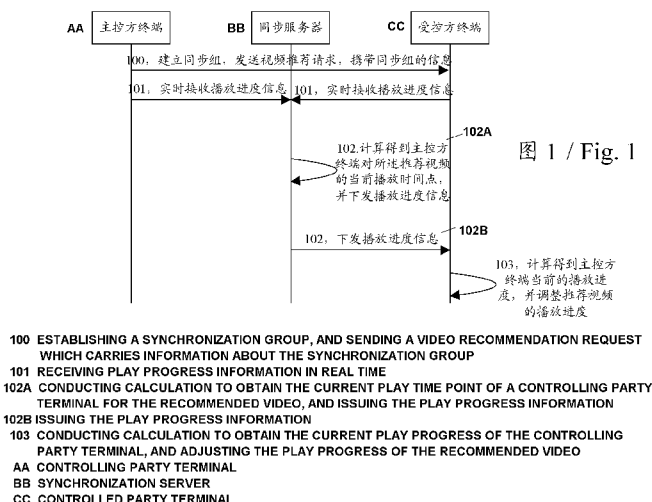
(10) 国际公布号
WO 2013/178190 A3

- (51) 国际专利分类号:
H04N 21/258 (2011.01)
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- (25) 申请语言: 中文
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- (30) 优先权:
201210308056.4 2012 年 8 月 27 日 (27.08.2012) CN
- (71) 申请人: 中兴通讯股份有限公司 (ZTE CORPORATION) [CN/CN]; 中国广东省深圳市南山区高新技术产业园科技南路中兴通讯大厦, Guangdong 518057 (CN)。
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- (81) 指定国 (除另有指明, 要求每一种可提供的国家保护): 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, 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, 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) 指定国 (除另有指明, 要求每一种可提供的地区保护): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), 欧亚 (AM, AZ, BY, KG, KZ, RU, TJ, TM), 欧洲 (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE,

[见续页]

(54) Title: METHOD, DEVICE AND SYSTEM AND FOR PLAY SYNCHRONIZATION CONTROL IN VIDEO RECOMMENDATION SERVICE

(54) 发明名称: 一种视频推荐业务中播放同步控制方法及装置、系统



(57) Abstract: Disclosed is a method for play synchronization control in a video recommendation service. The method comprises: a synchronization server receiving the play progress information reported in real time by a controlling party terminal and a controlled party terminal during the play process of a recommended video; the synchronization server conducting calculation according to the play progress information reported by the controlling party terminal to obtain the current play time point of the controlling party terminal for the recommended video, and sending to the controlled party terminal the play progress information which contains the current video play time point of the controlling party terminal for the recommended video; and the controlled party terminal conducting calculation according to the play progress information to obtain the current play progress of the controlling party terminal, and adjusting the play progress of the recommended video to be consistent with the current play progress of the controlling party terminal. Also disclosed are a synchronization server and system configured for play synchronization control in a video recommendation service.

(57) 摘要:

[见续页]



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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)。

- 在修改权利要求的期限届满之前进行，在收到该修改后将重新公布(细则 48.2(h))。
- 根据申请人的请求，在条约第 21 条(2)(a)所规定的期限届满之前进行。

本国际公布:

- 包括国际检索报告(条约第 21 条(3))。

(88) 国际检索报告公布日期: 2014 年 1 月 9 日

本发明实施例公开了一种视频推荐业务中播放同步控制的方法，所述方法包括：同步服务器接收主控方终端与受控方终端在推荐视频的播放过程中实时上报播放进度信息；同步服务器根据主控方终端上报的播放进度信息计算得到主控方终端对所述推荐视频的当前播放时间点，并将包含主控方终端对所述推荐视频的当前视频播放时间点的播放进度信息下发给受控方终端；受控方终端根据所述播放进度信息计算得到主控方终端当前的播放进度，并调整推荐视频的播放进度与所述主控方当前的播放进度一致。本发明实施例还公开了一种配置为视频推荐业务中播放同步控制的同步服务器和系统，实现了视频播放的同步控制。

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CN2013/080637

A. CLASSIFICATION OF SUBJECT MATTER

H04N 21/258 (2011.01) i

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)

IPC: H04N; H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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

CNPAT, CNKI, WPI, EPODOC: SYSTEM W TIME, VIDEO, SYNCHRON+, SERVER, STAMP, SHARE, MAIN, MASTER, SLAVE, PROGRESS, SCHEDULE, POSITION, REPORT

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	CN 102447693 A (ZTE CORPORATION) 09 May 2012 (09.05.2012) description, paragraphs [0045] to [0062] and figures 1 to 3	1-5, 10-16, 18, 20-25
X	CN 101262494 A (HUAWEI TECHNOLOGIES CO., LTD.) 10 September 2008 (10.09.2008)	6-9, 17, 19
Y	description, page 22, line 1 to page 24, line 19 and page 28, line 2 to page 30, line 14	1-5, 10-16, 18, 20-25
A	CN 101964842 A (FUDAN UNIVERSITY) 02 February 2011 (02.02.2011) the whole document	1-25
A	US 2004/0252400 A1 (MICROSOFT CORPORATION) 16 December 2004 (16.12.2004) the whole document	1-25

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

☒ See patent family annex.

* Special categories of cited documents:	“T” later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
“A” document defining the general state of the art which is not considered to be of particular relevance	“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
“E” earlier application or patent but published on or after the international filing date	“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
“L” document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	“&” document member of the same patent family
“O” document referring to an oral disclosure, use, exhibition or other means	
“P” document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 17 October 2013 (17.10.2013)	Date of mailing of the international search report 07 November 2013 (07.11.2013)
Name and mailing address of the ISA State Intellectual Property Office of the P. R. China No. 6, Xitucheng Road, Jimenqiao Haidian District, Beijing 100088, China Facsimile No. (86-10) 62019451	Authorized officer XIN, Haiming Telephone No. (86-10) 62413495

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/CN2013/080637

Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
CN 102447693 A	09.05.2012	WO 2013063941 A1	10.05.2013
CN 101262494 A	10.09.2008	WO 2009092214 A1	30.07.2009
CN 101964842 A	02.02.2011	None	
US 2004/0252400 A1	16.12.2004	None	

国际检索报告

国际申请号

PCT/CN2013/080637

A. 主题的分类

H04N 21/258 (2011.01) i

按照国际专利分类(IPC)或者同时按照国家分类和 IPC 两种分类

B. 检索领域

检索的最低限度文献(标明分类系统和分类号)

IPC: H04N, H04L

包含在检索领域中的除最低限度文献以外的检索文献

在国际检索时查阅的电子数据库(数据库的名称, 和使用的检索词(如使用))

CNPAT, CNKI, WPI, EPODOC:主控, 从控, 受控, 视频, 推荐, 共享, 分享, 播放, 时间戳, 系统时间, 进度, 同步, 上报, 下发, 分发, 位置, SYSTEM W TIME, VIDEO, SYNCHRON+, SERVER, STAMP, SHARE

C. 相关文件

类 型*	引用文件, 必要时, 指明相关段落	相关的权利要求
Y	CN 102447693 A (中兴通讯股份有限公司) 09.5 月 2012 (09.05.2012) 说明书第 45-62 段, 附图 1-3	1-5,10-16,18,20-25
X	CN 101262494 A (华为技术有限公司) 10.9 月 2008 (10.09.2008)	6-9,17,19
Y	说明书第 22 页第 1 行到第 24 页第 19 行, 第 28 页第 2 行到第 30 页第 14 行	1-5,10-16,18,20-25
A	CN 101964842 A (复旦大学) 02.2 月 2011 (02.02.2011) 全文	1-25
A	US 2004/0252400 A1 (MICROSOFT CORPORATION) 16.12 月 2004 (16.12.2004) 全文	1-25

☐ 其余文件在 C 栏的续页中列出。

☒ 见同族专利附件。

* 引用文件的具体类型:

“A” 认为不特别相关的表示了现有技术一般状态的文件

“E” 在国际申请日的当天或之后公布的在先申请或专利

“L” 可能对优先权要求构成怀疑的文件, 或为确定另一篇引用文件的公布日而引用的或者因其他特殊理由而引用的文件(如具体说明的)

“O” 涉及口头公开、使用、展览或其他方式公开的文件

“P” 公布日先于国际申请日但迟于所要求的优先权日的文件

“T” 在申请日或优先权日之后公布, 与申请不相抵触, 但为了理解发明之理论或原理的在后文件

“X” 特别相关的文件, 单独考虑该文件, 认定要求保护的发明不是新颖的或不具有创造性

“Y” 特别相关的文件, 当该文件与另一篇或者多篇该类文件结合并且这种结合对于本领域技术人员为显而易见时, 要求保护的发明不具有创造性

“&” 同族专利的文件

国际检索实际完成的日期

17.10 月 2013 (17.10.2013)

国际检索报告邮寄日期

07.11 月 2013 (07.11.2013)

ISA/CN 的名称和邮寄地址:

中华人民共和国国家知识产权局

中国北京市海淀区蓟门桥西土城路 6 号 100088

传真号: (86-10)62019451

受权官员

辛海明

电话号码: (86-10) **62413495**

国际检索报告
关于同族专利的信息

国际申请号
PCT/CN2013/080637

检索报告中引用的 专利文件	公布日期	同族专利	公布日期
CN 102447693 A	09.05.2012	WO 2013063941 A1	10.05.2013
CN 101262494 A	10.09.2008	WO 2009092214 A1	30.07.2009
CN 101964842 A	02.02.2011	无	
US 2004/0252400 A1	16.12.2004	无	