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[Continued on next page]

(54) Title: AUTOMATIC GENERATION OF SUGGESTED MINI-GAMES FOR CLOUD-GAMING BASED ON RECORDED GAMEPLAY

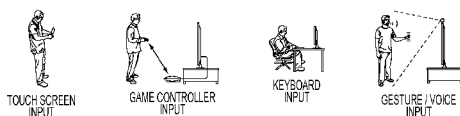
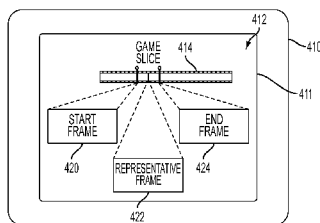
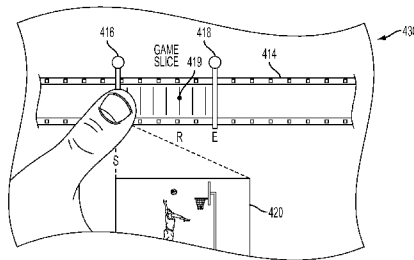
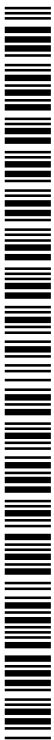


FIG. 4B

(57) Abstract: A method for generating a playable limited version of a video game is provided. A user's gameplay of a full version of the video game is recorded. The user's recorded gameplay is analyzed to determine a region of interest. Boundaries are defined within a gameplay context of the video game based on the determined region of interest. The limited version of the video game is generated based on the defined boundaries.





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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INTERNATIONAL SEARCH REPORT

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PCT/US2013/077320

A. CLASSIFICATION OF SUBJECT MATTER
 IPC(8) - A63F13/12 (2014.01)
 USPC - 463/42
 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(8) - (2014.01)
 USPC - 463/42, 43

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 CPC - A63F13/12 (2014.02)

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

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 6,699,127 B1 (LOBB et al) 02 March 2004 (02.03.2004) entire document	11-21 ----- 1-10
Y	US 2012/0270647 A1 (ZALEWSKI) 25 October 2012 (25.10.2012) entire document	1-10
A	US 2007/0294089 A1 (GARROW et al) 20 December 2007 (20.12.2007) abstract, figure 1, paragraphs 8-9, 37	1-21
A	US 2010/0240459 A1 (SHELTON) 23 September 2010 (23.09.2010) entire document	1-21
E, X	US 2014/0066177 A1 (ZALEWSKI) 06 March 2014 (06.03.2014) entire document	1-21
P, X	US 2013/0260896 A1 (MIURA et al) 03 October 2013 (03.10.2013) entire document	1-21

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	"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
"E" earlier application or patent but published on or after the international filing date	"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
"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)	"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
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"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 21 June 2014	Date of mailing of the international search report 14 JUL 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: Blaine R. Copenheaver PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2013/077320

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

- 1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

- 2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

- 3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:
See extra sheet.

- 1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
- 2. As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.
- 3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

- 4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-21

Remark on Protest

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2013/077320

Continuation of Box III.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I, claims 1-21, drawn to analyzing the user's recorded gameplay to determine a region of interest; defining boundaries within a gameplay context of the video game based on the determined region of interest; and generating the limited version of the video game based on the defined boundaries.

Group II, claims 22-31, drawn to receiving a command to initiate a sharing operation during the active state of the gameplay session; entering a paused state of the gameplay session and presenting a sharing interface; processing input received via the sharing interface to determine a user-defined selection of the recorded video; sharing the user-defined selection of the recorded video to a social graph of the user; resuming the active state of the gameplay session.

Group III, claims 32-38, drawn to presenting a live video feed of a first user's gameplay to a remote second user; processing a request to transition control of the first user's gameplay to the second user; initiating control of the first user's gameplay by the second user.

The inventions listed as Groups I-II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the special technical feature of the Group I invention: analyzing the user's recorded gameplay to determine a region of interest; defining boundaries within a gameplay context of the video game based on the determined region of interest; and generating the limited version of the video game based on the defined boundaries as claimed therein is not present in the invention of Groups II or III. The special technical feature of the Group II invention: receiving a command to initiate a sharing operation during the active state of the gameplay session; entering a paused state of the gameplay session and presenting a sharing interface; processing input received via the sharing interface to determine a user-defined selection of the recorded video; sharing the user-defined selection of the recorded video to a social graph of the user; resuming the active state of the gameplay session as claimed therein is not present in the invention of Groups I or III. The special technical feature of the Group III invention: presenting a live video feed of a first user's gameplay to a remote second user; processing a request to transition control of the first user's gameplay to the second user; initiating control of the first user's gameplay by the second user as claimed therein is not present in the invention of Groups I or II.

Groups I, II and III lack unity of invention because even though the inventions of these groups require the technical feature of recording video of a user's gameplay by a processor, this technical feature is not a special technical feature as it does not make a contribution over the prior art. Specifically, US 2007/0294089 A1 (GARBOW et al) 20 December 2007 (20.12.2007) abstract, figure 1, paragraphs 8-9, 37.

Since none of the special technical features of the Group I, II or III inventions are found in more than one of the inventions, unity of invention is lacking.