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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, 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, KM, 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, PE, PG, PH, PL, PT, RO, RS, RU, 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.
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[Continued on next page]

(54) Title: MULTIMEDIA PROJECTION MANAGEMENT

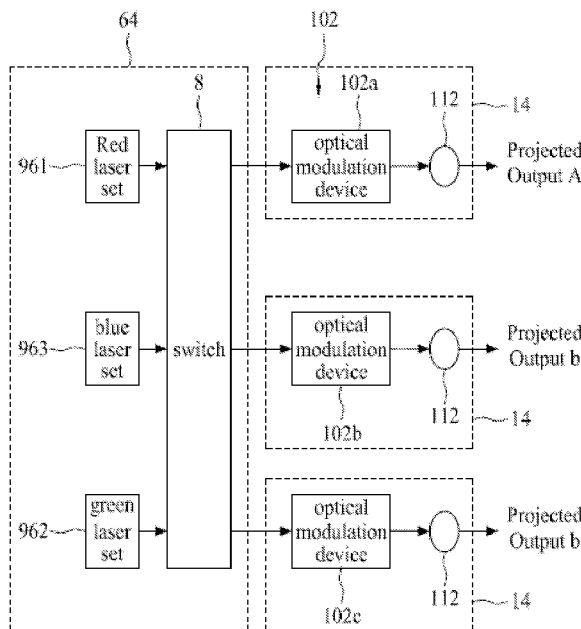


FIG. 6

(57) **Abstract:** System and methods for outputting coordinated audio and video presentations are provided. The system includes a plurality of speakers and a display device capable of providing a plurality of projection images. Sound generated by the plurality of speakers is coordinated with the plurality of projection images. The coordination process may be automatically performed according to position change of the plurality of projection images. Sound generated by the plurality of speakers may be further modulated according to position of a user or motion of a video object being displayed in one or more of the plurality of projected images.

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TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— *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))*

Published:

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
 INV. H04N5/74 H04S7/00
 ADD.

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)
 H04N H04S

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 practical, search terms used)
 EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2005/052623 A1 (HSIUNG CHAO-WANG [TW]) 10 March 2005 (2005-03-10)	1,2
Y	paragraphs [0035], [0036], [0081]; figures 8a-8d	3-9
X	WO 2007/104533 A1 (X6D LTD [CY]; RACMAN SERGEJ [SI]; COSTEIRA MARIA [PT]) 20 September 2007 (2007-09-20) page 7, line 18 - line 26; figures 1,2 page 8, line 9 - line 17	1
Y	FR 2 913 552 A1 (RENAULT SAS [FR]) 12 September 2008 (2008-09-12) * abstract; figure 2 page 9, line 10 - line 19	3-9
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Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "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)
- "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

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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

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29/12/2010

Name and mailing address of the ISA/

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INTERNATIONAL SEARCH REPORT

International application No

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2005/041000 A1 (PLUT WILLIAM J [US]) 24 February 2005 (2005-02-24) figure 4a -----	10
X	WO 2009/034694 A1 (PANASONIC CORP [JP]; MIZUSHIMA TETSURO; YAMAMOTO KAZUHISA; KUROZUKA AK) 19 March 2009 (2009-03-19)	10
Y	paragraph [0052]; figure 3 & EP 2 187 259 A1 (PANASONIC CORP [JP]) 19 May 2010 (2010-05-19) -----	11-18
Y	WO 02/41664 A2 (KONINKL PHILIPS ELECTRONICS NV [NL]) 23 May 2002 (2002-05-23)	11-18
A	* abstract -----	20-23,25
A	WO 2008/102970 A1 (DAEGU GYEONGBUK INST SCIENCE [KR]; KIM DAE-HWAN [KR]; CHOI BYEONG-DAE) 28 August 2008 (2008-08-28) figures 2,3 -----	10

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2010/030223

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 additional 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 an 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.:

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.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-9

multimedia output system configured to project at least two video images and the corresponding audio

2. claims: 10-18

multimedia output system generating at least one control signal for video output and one control signal for audio output and a projection display device comprising a switch configured to divert light from a light source to a plurality of projection outputs for generating modulated light which forms a plurality of projection images

3. claims: 19-26

method for coordinating sound generated by a plurality of speakers with a plurality of projection images, comprising detecting positions of the speakers and matching at least one speaker with at least one image

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2010/030223

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