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(54) **Dynamic ambient lighting**

(57) Systems, methods, software, and data structures that provide dynamic ambient lighting synchronized to a video program being watched in a premise are described herein. A video program may be associated with a predefined lighting scheme that specifies or identifies a time sequenced set of lighting effects (e.g., flashing police lights, sunrise, explosion, etc.) that are to be performed by the dynamic ambient lighting system time-synchronously with the video program. Components of the dynamic ambient lighting system may extract the lighting scheme from video data, parse the lighting scheme into individual lighting effects, and then control a single-color or multicolor light source associated with each of a plurality of light channels (e.g., front right, rear right, front left, rear left, center, and burst channel, among others) based on time sequenced lighting primitives defined by each lighting effect. Light sources may be wirelessly controlled, e.g., using an IEEE 802.15.4 or ZigBee-compliant wireless system.

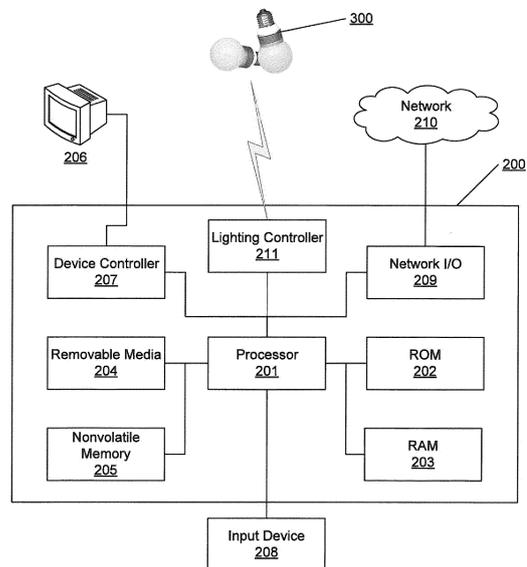


FIG. 2

EP 2 605 622 A3



EUROPEAN SEARCH REPORT

Application Number
EP 12 19 6159

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 2010/213876 A1 (ADAMSON TONY [NL] ET AL) 26 August 2010 (2010-08-26) * paragraphs [0037] - [0077]; figures 2, 4-8 *	1-6	INV. H05B37/02
X	----- US 6 564 108 B1 (MAKAR MICHAEL G [US] ET AL) 13 May 2003 (2003-05-13) * column 5, line 65 - column 8, line 50 * * column 9, line 65 - column 12, line 42; figures 6-9,12-16 *	7-12	
X	----- US 2011/215725 A1 (PAOLINI STEVEN [US]) 8 September 2011 (2011-09-08) * paragraphs [0025], [0031] - [0051]; figures 2-6 *	13-15	
			TECHNICAL FIELDS SEARCHED (IPC)
			H05B
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 18 June 2013	Examiner Waters, Duncan
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

3
EPO FORM 1503 03.82 (P04C01)



Application Number

EP 12 19 6159

CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

- Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

- No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

- As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

- Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

- None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

- The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).



**LACK OF UNITY OF INVENTION
SHEET B**

Application Number
EP 12 19 6159

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-6

a light source comprising LEDs and a wireless receiver

2. claims: 7-12

a method of outputting time-synchronised video content &
ambient lighting instructions based on received
time-synchronised video data & lighting data

3. claims: 13-15

an apparatus comprising a processor and a wireless
transmitter

ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.

EP 12 19 6159

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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18-06-2013

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EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82