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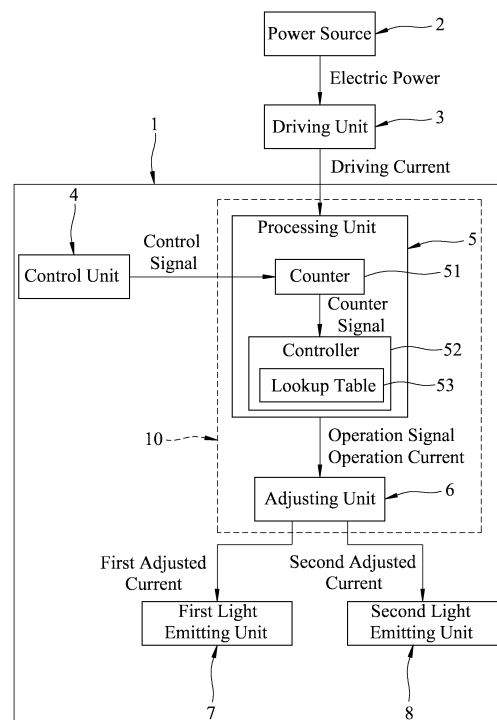
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(54) **Light emitting device and current control module thereof**

(57) A light emitting device (1) includes a processing unit (5), an adjusting unit (6), and first and second light emitting units (7, 8) that emit light in response to a current received thereby. The processing unit (5) receives a control signal and outputs an operation signal associated therewith. The adjusting unit (6) receives the operation signal and a reference input, and outputs adjusted currents to the light emitting units (7, 8) in response to the operation signal. A sum of magnitudes of the adjusted currents is associated with the reference input. Lights emitted by the first and second light emitting units (7, 8) have different color temperatures.



**FIG.1**



## EUROPEAN SEARCH REPORT

Application Number  
EP 14 16 5898

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	EP 2 575 411 A1 (INFINEON TECHNOLOGIES AG [DE]) 3 April 2013 (2013-04-03) * paragraphs [0011] - [0036]; figures 1-8b *	1-9	INV. H05B33/08
X	JP 2012 004240 A (MITSUBISHI ELECTRIC CORP) 5 January 2012 (2012-01-05) * the whole document *	1-9	
X,P	EP 2 657 991 A1 (MITSUBISHI CHEM CORP [JP]) 30 October 2013 (2013-10-30) * paragraphs [0069] - [0085]; figure 10 *	1	
X,P	EP 2 624 664 A1 (MITSUBISHI CHEM CORP [JP]) 7 August 2013 (2013-08-07) * paragraphs [0042] - [0066]; figure 2 *	10-15	
X	WO 2010/103480 A2 (KONINKL PHILIPS ELECTRONICS NV [NL]; TER WEEME BEREND J W [NL]; JANS W) 16 September 2010 (2010-09-16) * page 7, line 11 - page 8, line 25; figures 1A-2B *	10	TECHNICAL FIELDS SEARCHED (IPC) H05B
A	JP 2001 045406 A (MATSUSHITA ELECTRIC IND CO LTD) 16 February 2001 (2001-02-16) * abstract *	10-15	
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 9 October 2015	Examiner Villafuerte Abrego
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	



Application Number

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**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 14 16 5898

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: 1-9

A light emitting device comprising a processing unit, receiving a control signal to output an operation signal, an adjusting unit, receiving the operation signal and a reference, to adjust currents in response to the operation signal, the sum of the currents being equal to the reference, for first and second LED units having different color temperatures.

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2. claims: 10-15

A current control module comprising a processing unit, receiving a control signal to output an operation signal, an adjusting unit, receiving the operation signal and a reference, to adjust currents in response to the operation signal, the sum of the currents being equal to the reference.

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

EP 14 16 5898

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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09-10-2015

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EPO FORM P0459

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