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- (54) **Title:** LOAD DRIVE CIRCUIT, LOAD DRIVE METHOD, AND LUMINAIRE

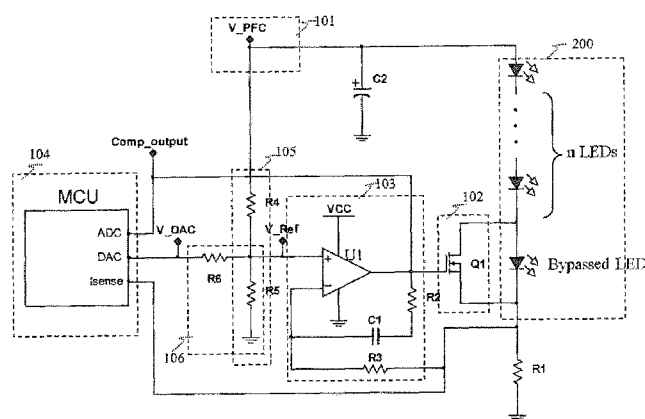


FIG. 5

- (57) **Abstract:** The present disclosure provides a load drive circuit, a load drive method and a luminaire. The load drive circuit and load drive method are used for reducing a ripple of a load current flowing through at least one load. The circuit comprises: a DC power source configured to provide a DC output voltage for at least one load based on an output voltage of an AC/DC converter, the DC output voltage having a ripple; a variable resistance module that is connected to the load; a ripple reduction module that generates, based on a reference voltage and a feedback signal from the load, a variable resistance adjusting signal for adjusting the resistance of the variable resistance module so as to reduce a ripple of the load current, wherein the reference voltage is generated based on the DC output voltage; and a reference voltage adjusting module that adjusts the average value of the reference voltage based on the variable resistance adjusting signal, so as to make the average value of the reference voltage approach the average value of the feedback signal as much as possible.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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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)
H05B

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)

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2006/220571 A1 (HOWELL WAYNE [GB] ET AL) 5 October 2006 (2006-10-05) paragraphs [0014] - [0028]; figures 1-3 -----	1-5,10, 11,15, 16,21,22
X	US 2009/284180 A1 (SHEN YI-LUN [TW] ET AL) 19 November 2009 (2009-11-19) paragraphs [0019] - [0035]; figures 3-7 -----	1,2,10, 11,15, 16,21,22
A	US 2008/150877 A1 (CHAO HAN-YU [TW] ET AL) 26 June 2008 (2008-06-26) paragraphs [0026] - [0033]; figures 2-4 -----	1-22
A	EP 2 149 871 A2 (SAMSUNG ELECTRONICS CO LTD [KR] SAMSUNG DISPLAY CO LTD [KR]) 3 February 2010 (2010-02-03) paragraphs [0078] - [0096]; figures 15-18 ----- -/-	1-22

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

☒ See patent family annex.

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INTERNATIONAL SEARCH REPORT

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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.
A	US 2009/322252 A1 (SHIU SHIAN-SUNG [TW] ET AL) 31 December 2009 (2009-12-31) sentence 20, paragraph 17; figure 2 -----	1-22

INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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