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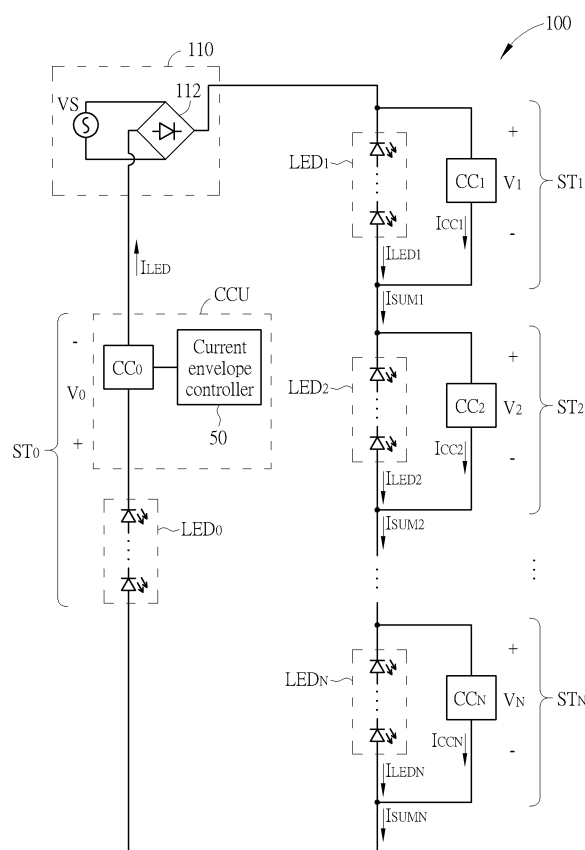
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(54) LIGHT-EMITTING DIODE LIGHTING DEVICE HAVING MULTIPLE DRIVING STAGES

(57) An LED lighting device includes a slave driving stage and a master driving stage. The slave driving stage includes a first luminescent device and a first current controller for providing a constant current setting in an ON phase. The master driving stage includes a second luminescent device and a current control unit having a second current controller and a current envelope controller. The second current controller provides a current envelope in the ON phase. The current envelope controller sets a level of the current envelope according to a rectified AC voltage. The driving current is regulated by the first current controller according to the constant current setting when the constant current setting is smaller than the level of the current envelope, or by the second current controller according to the current envelope when the level of the current envelope is smaller than the constant current setting.





EUROPEAN SEARCH REPORT

Application Number
EP 15 16 7698

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X	US 2013/127354 A1 (CHIANG YUNG-HSIN [TW] ET AL) 23 May 2013 (2013-05-23)	1,6-10	INV. H05B33/08
Y	* page 1, paragraph 3; figures 4, 5, 6, 11, 12, 18, 19, 20 *	2-5	
	* page 1, paragraph 9 - page 2, paragraph 10 *		
	* page 2, paragraph 20 - page 3, paragraph 23 *		
	* page 4, paragraph 29 - page 5, paragraph 39 *		
	* page 7, paragraph 56 - page 8, paragraph 59 *		
Y	US 2011/194311 A1 (GAKNOKI YURY [US] ET AL) 11 August 2011 (2011-08-11)	2	
	* abstract; figures 1, 4 *		
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	* page 2, paragraph 22 - page 4, paragraph 31 *		
	* page 6, paragraph 44 - page 7, paragraph 48 *		
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The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 16 June 2016	Examiner Brosa, Anna-Maria
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			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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