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(54) Title: CONTROLLING THE LIGHT OUTPUT OF ONE OR MORE LEDS IN RESPONSE TO THE OUTPUT OF A DIMMER

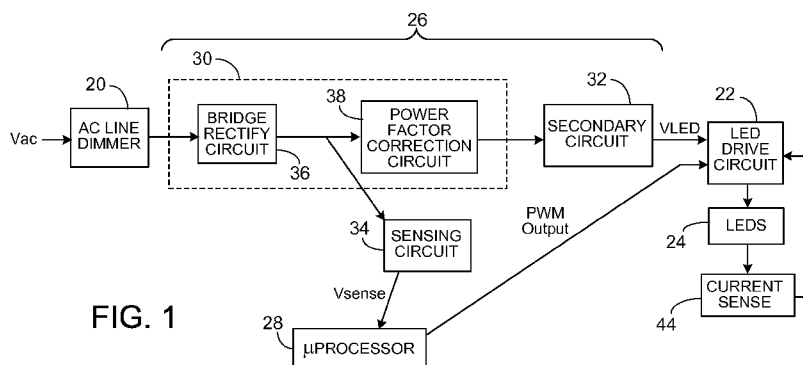


FIG. 1

(57) Abstract: An apparatus for controlling the brightness of one or more light emitting diodes includes a sensing circuit to sense a dimming level of a dimmer. A microprocessor receives from the sensing circuit a signal indicative of the dimming level, and a drive circuit drives the one or more light emitting diodes. The microprocessor is arranged to generate a PWM waveform or current level corresponding to the dimming level and to provide the PWM waveform or current level to the drive circuit.

A. CLASSIFICATION OF SUBJECT MATTER***H05B 37/02(2006.01)i***

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)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords:LED, dimmer, dimming Level, snubber, PWM

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	KR 10-2009-0048100 A (HANG-SUCK,PARK) 13 May 2009 See abstract, Figs.1-2 and related description	3,4-8,22
Y	KR 10-0912133 B1 (IL SUNG CO.,LTD. et al.) See abstract, Figs.3,5 and related description, paragraphs[0015]-[0021]	3,4-8,22
Y	US 2010-0134038 A1 (SHACKLE PETER W. et al.) 03 June 2010 See Figs.1A,1B,2A and related description, paragraphs[0089]-[0090]	8
A	KR 10-2010-0107055 A (CREE LED LIGHTING SOLUTIONS,INC.) 04 October 2010 See Figs.4,14 and related description	1-22
A	US 2011-0043133 A1 (VAN LAANEN PETER et al.) 24 February 2011 See Figs.9-10 and related description, paragraphs[0060]-[0070]	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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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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US 2011-0043133 A1	24.02.2011	None	