



(11) **EP 2 434 844 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
29.08.2012 Bulletin 2012/35

(51) Int Cl.:
H05B 41/282 (2006.01)

(43) Date of publication A2:
28.03.2012 Bulletin 2012/13

(21) Application number: **11181655.9**

(22) Date of filing: **16.09.2011**

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR
Designated Extension States:
BA ME

(72) Inventors:
• **Hamamoto, Katunobu**
Neyagawa, Osaka (JP)
• **Himeda, Masato**
Shikama-ku,
Himeji, Hyogo 652-8039 (JP)

(30) Priority: **27.09.2010 JP 2010216200**

(74) Representative: **Rüger, Rudolf**
Webergasse 3
73728 Esslingen (DE)

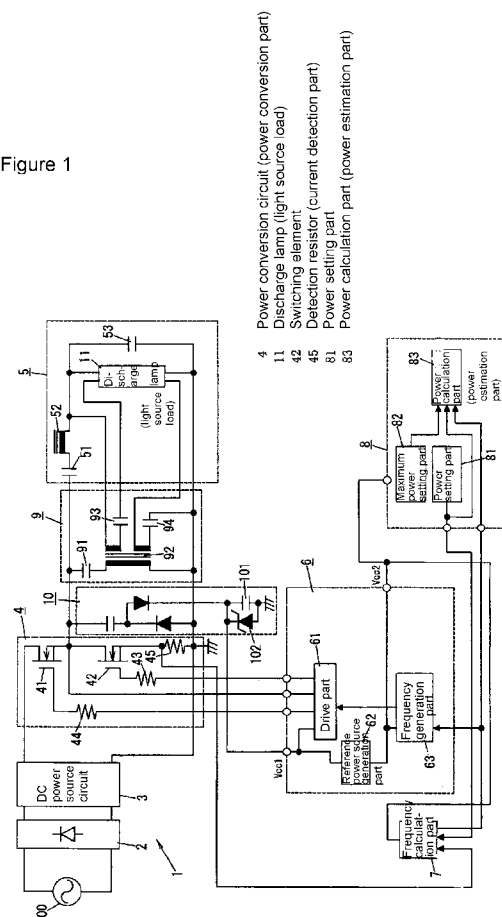
(71) Applicant: **Panasonic Corporation**
Osaka 571-8501 (JP)

(54) **Lighting device, illumination fixture, and illumination system**

(57) [Object] To enable measurement of input power without using a current transformer and obtain input power with sufficient accuracy even if there is a change in the ambient temperature of a light source load.

[Means for Settlement] A detection resistor 45 is connected in series to a switching element 42 of a power conversion circuit 4 and detects a current flowing in the switching element 42. By using a power setting value outputted from a power setting part 81 so as to determine a size of power supplied to a discharge lamp 11 and a current detection value corresponding to an output of the detection resistor 45, a power calculation part 83 obtains input power through correction of a fluctuation of a current detection value caused by a change in the ambient temperature of the discharge lamp 11. Here, the power calculation part 83 calculates input power by using a power adjustment value corresponding to a difference between a power setting value and a current detection value, a maximum power value being a power setting value obtained when power is supplied to the discharge lamp 11 at the maximum, and a power setting value.

Figure 1





EUROPEAN SEARCH REPORT

Application Number
EP 11 18 1655

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 2010/013393 A1 (ONISHI NAOKI [JP] ET AL) 21 January 2010 (2010-01-21)	1,2,4	INV. H05B41/282
Y	* paragraphs [0046] - [0062]; figures 1,2 *	5	
Y	----- US 6 181 086 B1 (KATYL ROBERT H [US] ET AL) 30 January 2001 (2001-01-30) * column 3, lines 35-66; claims 6,12 * -----	5	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (IPC)
			H05B
Place of search		Date of completion of the search	Examiner
Munich		18 July 2012	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			

1
EPO FORM 1503 03.82 (P04C01)

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

EP 11 18 1655

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
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

18-07-2012

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2010013393 A1	21-01-2010	CN 101513129 A	19-08-2009
		EP 2059097 A1	13-05-2009
		JP 4608470 B2	12-01-2011
		JP 2008059938 A	13-03-2008
		US 2010013393 A1	21-01-2010
		WO 2008029655 A1	13-03-2008

US 6181086 B1	30-01-2001	US 6181086 B1	30-01-2001
		US 6388396 B1	14-05-2002
