



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
04.03.2015 Bulletin 2015/10

(51) Int Cl.:
H05B 33/08 (2006.01) H05B 37/02 (2006.01)

(43) Date of publication A2:
10.11.2010 Bulletin 2010/45

(21) Application number: **10161765.2**

(22) Date of filing: **03.05.2010**

(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 SE SI SK SM TR
Designated Extension States:
BA ME RS

- **Ståhl, Lars**
44837, Floda (SE)
- **Sundberg, Joel**
41481, Göteborg (SE)
- **Pourian, Iman Habib**
43138, Mölndal (SE)
- **Josefsson, Gustav**
41279, Göteborg (SE)

(30) Priority: **04.05.2009 SE 0950298**

(71) Applicant: **Vadsbo Innovation AB**
422 43 Hisings Backa (SE)

(74) Representative: **Hammond, Andrew David**
Valea AB
Box 1098
405 23 Gothenburg (SE)

(72) Inventors:
• **Ågren, Sune**
42243, Hisings Backa (SE)

(54) **Electric circuit arrangement**

(57) The present solution relates to a device for operation and control of constant current light emitting diode, LED, lamps. The device comprising at least one circuit board (405) comprising LED drive and control circuits. The device further comprises at least one user control input (101,212), at least one LED power output inter-

face (105, 210) and at least one power supply connection (110, 205). The circuit board (405) is arranged to fit into an apparatus junction box and the circuit board (405) further comprises a micro controller controlling supply current on the LED output interface (150, 210).

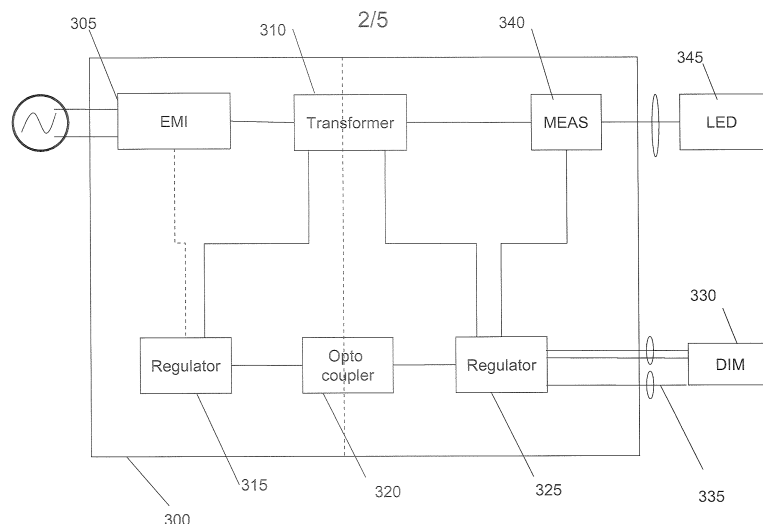


Fig. 2



EUROPEAN SEARCH REPORT

 Application Number
 EP 10 16 1765

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 6 057 651 A (USAMI YUTAKA [JP]) 2 May 2000 (2000-05-02) * column 4, line 1 - column 7, line 64; figures 1-6 *	1-14	INV. H05B33/08 H05B37/02
A	US 2007/222399 A1 (BONDY MONTGOMERY [CA] ET AL) 27 September 2007 (2007-09-27) * the whole document *	1-14	
A	US 2004/212321 A1 (LYS IHOR A [US] ET AL) 28 October 2004 (2004-10-28) * the whole document *	1-14	
A	US 2008/265685 A1 (BLAIR EDWARD J [US] ET AL) 30 October 2008 (2008-10-30) * the whole document *	1-14	
A	DE 10 2006 046489 A1 (TRIDONICATCO GMBH & CO KG [AT]) 3 April 2008 (2008-04-03) * the whole document *	1-14	
A	US 2005/189566 A1 (MATSUMOTO TADAHIKO [JP] ET AL) 1 September 2005 (2005-09-01) * the whole document *	1-14	TECHNICAL FIELDS SEARCHED (IPC) H05B H02M
A	WO 2006/133168 A2 (LUTRON ELECTRONICS CO [US]; MOSEBROOK DONALD [US]; ROGAN CHRISTOPHER [US]) 14 December 2006 (2006-12-14) * the whole document *	1-14	
A	US 2005/231133 A1 (LYS IHOR A [US]) 20 October 2005 (2005-10-20) * the whole document *	1-14	
A	US 2004/207342 A1 (NOVIKOV LENNY M [US]) 21 October 2004 (2004-10-21) * the whole document *	1-14	
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 8 January 2015	Examiner Hunckler, José
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			

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

EP 10 16 1765

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.

08-01-2015

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6057651 A	02-05-2000	CN 1209720 A	03-03-1999
		JP H1167471 A	09-03-1999
		US 6057651 A	02-05-2000
US 2007222399 A1	27-09-2007	NONE	
US 2004212321 A1	28-10-2004	US 2004212321 A1	28-10-2004
		US 2006208667 A1	21-09-2006
US 2008265685 A1	30-10-2008	NONE	
DE 102006046489 A1	03-04-2008	AT 12863 U1	15-01-2013
		CN 101523986 A	02-09-2009
		DE 102006046489 A1	03-04-2008
		EP 2067382 A2	10-06-2009
		WO 2008040454 A2	10-04-2008
US 2005189566 A1	01-09-2005	JP 2004222486 A	05-08-2004
		US 2005189566 A1	01-09-2005
WO 2006133168 A2	14-12-2006	AU 2006255105 A1	14-12-2006
		AU 2010201602 A1	13-05-2010
		BR PI0613238 A2	04-12-2012
		CA 2611589 A1	14-12-2006
		CN 101496449 A	29-07-2009
		EP 1894446 A2	05-03-2008
		IL 187941 A	31-07-2012
		JP 2009510667 A	12-03-2009
		US 2007007826 A1	11-01-2007
		US 2010145545 A1	10-06-2010
		WO 2006133168 A2	14-12-2006
US 2005231133 A1	20-10-2005	AU 2005222987 A1	29-09-2005
		CA 2559718 A1	29-09-2005
		CA 2730210 A1	29-09-2005
		EP 1731004 A2	13-12-2006
		JP 5198057 B2	15-05-2013
		JP 5419918 B2	19-02-2014
		JP 2007529872 A	25-10-2007
		JP 2011188738 A	22-09-2011
		JP 2014017518 A	30-01-2014
		KR 20060131985 A	20-12-2006
		US 2005213352 A1	29-09-2005
		US 2005213353 A1	29-09-2005
		US 2005218838 A1	06-10-2005
		US 2005218870 A1	06-10-2005

EPO FORM P0459

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

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

EP 10 16 1765

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.

08-01-2015

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
		US 2005219872 A1	06-10-2005
		US 2005231133 A1	20-10-2005
		US 2008012502 A1	17-01-2008
		WO 2005089309 A2	29-09-2005

US 2004207342 A1	21-10-2004	CA 2455541 A1	18-10-2004
		CA 2455561 A1	18-10-2004
		CA 2455572 A1	18-10-2004
		MX PA04002606 A	17-02-2005
		US 2004207342 A1	21-10-2004
