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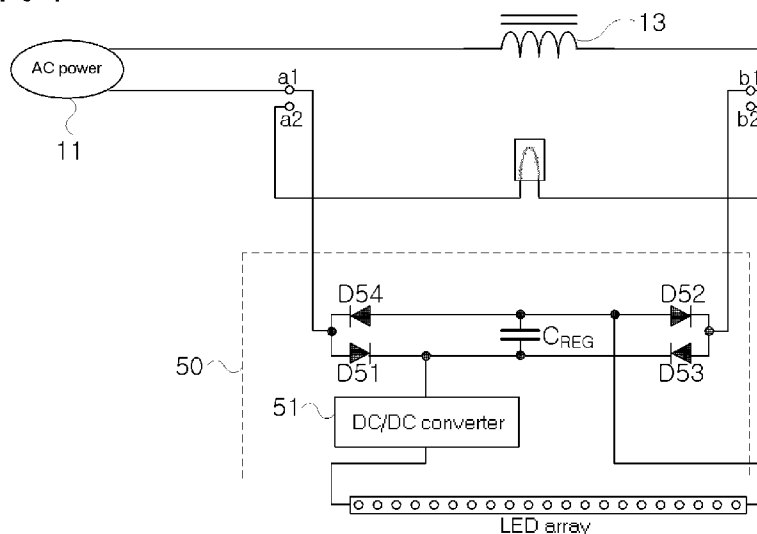
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(54) Title: APPARATUS FOR CONNECTING LED LAMPS INTO LIGHTING INSTRUMENTS OF A FLUORESCENT LAMP

[Fig. 5]



(57) Abstract: Disclosed herein is an apparatus for connecting Light- Emitting Diode (LED) lamps to a fluorescent lamp apparatus. The fluorescent lamp apparatus is provided with a fluorescent lamp mounting unit having an Alternating Current (AC) power supply unit, a ballast, two connection terminals on the first side thereof and two connection terminals on the second side thereof. The apparatus of the present invention includes a bridge diode for full-wave-rectifying AC current conducted between a first-side connecting terminal connected to the AC power supply unit and a second-side connection terminal connected to the ballast, a smoothing capacitor for smoothing the power full- wave-rectified by the bridge diode and outputting Direct Current (DC) power, and an LED lamp power supply unit for converting the smoothed DC power into LED lamp driving power and outputting the LED lamp driving power to the LED lamps.

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## INTERNATIONAL SEARCH REPORT

International application No.  
**PCT/KR2008/006632****A. CLASSIFICATION OF SUBJECT MATTER****H05B 41/24(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)

IPC 8: H05B 41/24

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 since 1975  
Japanese Utility models and applications for Utility models since 1975

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

eKIPASS (KIPO internal) &amp; keywords: "fluorescent lamp", "LED", "bridge diode" and "terminals"

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2004-192833 A (CKD CORP.) 08 July 2004 See figure 6 and paragraphs [0057]-[0070].	1-7
A	JP 2007-257928 A (YASHIMA DENGYO CO., LTD.) 04 October 2007 See whole document.	1-7
A	JP 11-135274 A (TOSHIBA TECK.) 21 May 1999 See whole document.	1-7
A	KR 10-0722260 B1 (UKOS ELECTRIC CO., LTD.) 29 May 2007 See whole document.	1-7

 Further documents are listed in the continuation of Box C. See patent family annex.

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"&amp;" document member of the same patent family

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**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
JP 2004-192833 A	08.07.2004	JP 3929885 B2	13.06.2007
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JP 11-135274 A	21.05.1999	NONE	
KR 10-0722260 B1	21.05.2007	NONE	