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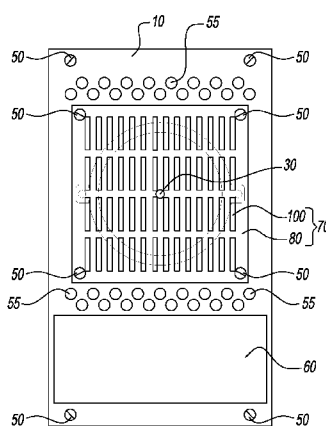


FIG. 1

(57) Abstract: The present invention discloses an integrated electronic light source module that has a base plate to support an electronic light source; a power supply to drive this light source; and a heat sink to dissipate the heat generated by this invention. The cooling fins of the heat sink are in perpendicular relation to the axis along which the natural flow of heat is oriented. Such a setup provides for effective heat dissipation and a more rapid cooling than disclosed in the prior art. Although, the present invention can be completely autonomous, an optional coupling unit can be included that is adapted to connect to an external power source, such as a socket of a light fixture. The electronic light source embodies the use of an LED element, or of a more traditional fluorescent lighting. The present invention increases modularity of the device by integrating all components needed for an effective prolonged illumination into a single swappable module.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

F21V 17/00(2006.01)i, F21V 29/00(2006.01)i, F21Y 101/02(2006.01)n

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: F21V 17/00; F21V 29/00; F21Y 101/02

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: light source, LED, cooling fin, heat sink

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	US 2008-0310162 A1 (THOMAS, JAMES et al.) 18 December 2008 See the abstract; paragraphs [22]-[24]; figures 1-8.	1,4-11,15,18-20 2,3,16,17
Y	US 2007-0268698 A1 (CHEN, WEI-RUR et al.) 22 November 2007 See the abstract; paragraphs [25]-[28]; figures 1-3.	2,3,16,17
A	JP 2004-528698 A (GELCORE LLC) 16 September 2004 See the abstract; paragraphs [16]-[18]; figures 1-5.	1-20
A	US 2007-0041190 A1 (CHOU, SHEN-HONG) 22 February 2007 See the abstract; paragraphs [26]-[33]; figures 3-4.	1-20

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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