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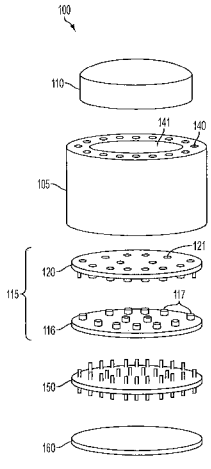


FIG. 1A

(57) Abstract: Disclosed is a modular light emitting diode (LED) light pod having heat dissipation structures. A reflective optic plate, which may be made in various modular sizes and designs, having a plurality of recesses is seated on an LED board having a plurality of LEDs, such that the plurality of LEDs fit within the plurality optical recesses. The optical recesses serve to collimate light in a desirable manner based on predetermined dimensional ratios of the optical recesses. A heat dissipation system involves a heat sink housing acting in combination with a heat extraction plate having a plurality thermally conductive posts extending perpendicularly from a top and bottom surface, and a heat dissipation plate to create a thermally conductive path for moving heat away from the LED board when the light pod is in use.

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INTERNATIONAL SEARCH REPORT

International application No.
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A. CLASSIFICATION OF SUBJECT MATTER
IPC: **F21V 7/00**(2006.01)

USPC: 362/247
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)
U.S. : 362/247,294,373,241,247,249,237,240,243,245,307,800

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

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

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 2003/0189829 (Shimizu et al.) 9 October 2003, Figs. 4a and 4b	7-12
X	US 2004/0149998 (Henson et al.) 5 August 2004, Page 3, Paragraph 47	3-10
Y	US 2002/0148595 (Sato et al.) 17 October 2002, Paragraph 53-60	3-6
Y	US 3,162,500 (Pittman) 22 December 1964, column 2, lines 62-71	1-4

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

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