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.
INTERNATIONAL SEARCH REPORT

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)

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

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No</th>
</tr>
</thead>
<tbody>
<tr>
<td>X, Y</td>
<td>US 2003/0189829 (Shimizu et al) 9 October 2003, Figs 4a and 4b</td>
<td>7-12</td>
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<tr>
<td>X</td>
<td>US 2004/0149998 (Henson et al) 5 August 2004, Page 3, Paragraph 47</td>
<td>3-10</td>
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<tr>
<td>Y</td>
<td>US 3,162,500 (Pittman) 22 December 1964, column 2, lines 62-71</td>
<td>1-4</td>
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Further documents are listed in the continuation of Box C

* Special categories of cited documents
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See patent family annex

Date of the actual completion of the international search
11 June 2008 (11 06 2008)

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18 JUL 2008

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