Abstract: A modular headlamp assembly includes a low beam headlamp module, a high beam headlamp module, and front turn/parking lamp module. The low beam headlamp module and the high beam headlamp module are supported by a reflector carrier. Each of the high and low beam headlamp modules includes a heat sink and mounting assembly with a heat sink portion bisecting a reflector member. The reflector carrier is adjustable fastened to a housing to allow for adjustment of the high and low beam headlamp modules within the modular headlamp assembly.
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:
— as to the identity of the inventor (Rule 4.17(i))

Published: with international search report (Art. 21(3))

(88) Date of publication of the international search report: 15 May 2014
### A. CLASSIFICATION OF SUBJECT MATTER

**IPC(8) - F21V 21/28 (2012.01)**  
**USPC - 362/538**  

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) - B60Q 1/08; F21V 5/00, 17/02, 21/28 (2012.01)**  
**USPC - 362/465, 514, 538, 555**  

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)  
PatBase, Google Patents, Google.

### 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>Y</td>
<td>US 7,036,966 B2 (STRAZZANTI) 02 May 2006 (02.05.2006) entire document</td>
<td>10, 31, 45</td>
</tr>
<tr>
<td>Y</td>
<td>US 6,439,753 B1 (SUMADA et al) 27 August 2002 (27.08.2002) entire document</td>
<td>20-54</td>
</tr>
</tbody>
</table>

- **X** Special categories of cited documents:  
  - **A** document defining the general state of the art which is not considered to be of particular relevance  
  - **E** earlier application or patent but published on or after the international filing date  
  - **L** document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  
  - **O** document referring to an oral disclosure, use, exhibition or other means  
  - **P** document published prior to the international filing date but later than the priority date claimed  

- **Y** later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  

- **T** document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  

- **X** document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art  

- **Y** document member of the same patent family  

Date of the actual completion of the international search  
28 November 2012

Date of mailing of the international search report  
14 DEC 2012

Name and mailing address of the ISA/US  
Mail Stop PCT, Attn: ISA/US, Commissioner for Patents  
P.O. Box 1450, Alexandria, Virginia 22313-1450  
Facsimile No. 571-273-3201

Authorized officer:  
Blaine R. Copenhaver

PCT Helpdesk: 571-272-4300  
PCT OSP: 571-272-7774

Form PCT/ISA/210 (second sheet) (July 2009)