Title: APPARATUS AND METHOD FOR MOUNTING AND ADJUSTING LED HEADLIGHTS

Abstract: An LED headlight assembly (10) for a vehicle. The headlight assembly (10) includes a plurality of LED units (14) mounted to a common carrier (16), where the LED units (14) include one or more LEDs and generate white light. The headlight assembly (10) further includes a headlight housing (28) that is mounted to the vehicle by a mounting frame (52). The carrier (16) is sealed to the housing (28) by a flexible bellows (34). An outer lens (26) is mounted to the housing (28) so that the LED units (14) are positioned within a sealed compartment (42). A backside of the carrier (16) outside of the sealed compartment (42) includes fins (46) or other heat sinking devices to remove heat generated by the LED units (14). The frame (52) allows convective air to flow around the heat sink (46) to remove heat from the LED units (14). A series of actuators (50) and/or pivots (58) are mounted to the frame (52) and to the carrier (16) so that the carrier (16) can be moved on at least one axis to adjust the direction of the LED headlight assembly (10).
Declarations under Rule 4.17:


— of inventorship (Rule 4.17(iv)) for US only

Published:

— with international search report

— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US04/28846

A. CLASSIFICATION OF SUBJECT MATTER
IPC(7) : F21S 8/10; F21V 21/00
US CL : 362/545, 547, 508, 546
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. : 362/545, 547, 508, 546, 516, 520, 523, 526, 528, 548, 549

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>
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</table>

Further documents are listed in the continuation of Box C.

See patent family annex.

Date of the actual completion of the international search
17 February 2005 (17.02.2005)

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