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(54) Title: HEAT SINK ASSEMBLY FOR OPTO-ELECTRONIC COMPONENTS AND A METHOD FOR PRODUCING THE SAME

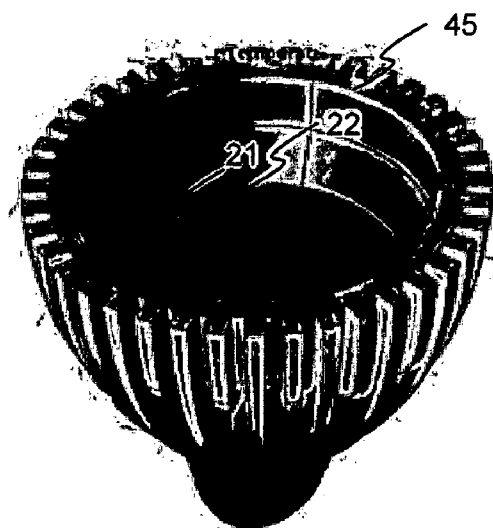


FIG. 10a

(57) Abstract: The invention relates to a heat sink assembly and a method for producing the same. The invention can be applied, for example, in solid state lighting in order to improve the efficiency of heat dissipation. The object of the invention is achieved with a solution where effective thermal connection is provided from opto-electrical component in which thermally active inserts are embedded in an injection moulding to plastic heat sink. Solution of the invention can also provide also electrical connections for opto-electrical components.



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INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

See extra sheet

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: H01L, F21V

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
FI, SE, NO, DK

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

EPO-Internal, WPI, INSPEC, XPAIP, XPESP, XPIEE, XPIETF, XPIOP, XPIE3

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2009255660 A1 (CORNIE JAMES A et al.) 15 October 2009 (15.10.2009) the whole document, especially, abstract; paragraphs [0052]-[0054], [0059]; claims 1, 22, and 25	1-37
A	US 2009322800 A1 (ATKINS ROBIN) 31 December 2009 (31.12.2009) the whole document	1-37
A	US 2008008216 A1 (MILLER ROBERT L et al.) 10 January 2008 (10.01.2008) the whole document	1-37
A	US 2003051867 A1 (KENNEDY PAUL S) 20 March 2003 (20.03.2003) the whole document	1-37
A	US 2009086492 A1 (MEYER WILLIAM E) 02 April 2009 (02.04.2009) the whole document	1-37



Further documents are listed in the continuation of Box C.



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"&" document member of the same patent family

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INTERNATIONAL SEARCH REPORT

International application No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	WO 2011137355 A1 (UNIFLUX LED INC et al.) 03 November 2011 (03.11.2011) the whole document	1-37
P, A	US 2011242816 A1 (CHOWDHURY ASHFAQUL I et al.) 06 October 2011 (06.10.2011) the whole document	1-37

INTERNATIONAL SEARCH REPORT
Information on patent family members

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Patent document cited in search report	Publication date	Patent family members(s)	Publication date
US 2009255660 A1	15/10/2009	None	
US 2009322800 A1	31/12/2009	None	
US 2008008216 A1	10/01/2008	None	
US 2003051867 A1	20/03/2003	None	
US 2009086492 A1	02/04/2009	WO 2009042042 A1 EP 2191198 A1 CN 101809365 A	02/04/2009 02/06/2010 18/08/2010
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US 2011242816 A1	06/10/2011	WO 2011123267 A1	06/10/2011

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