

EXHIBIT A

SECOND AMENDED COMPLAINT FOR PATENT INFRINGEMENT



(12) **United States Patent**
Yoganandan et al.

(10) **Patent No.:** **US 6,949,771 B2**
 (45) **Date of Patent:** **Sep. 27, 2005**

- (54) **LIGHT SOURCE**
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 CA (US)
- (*) Notice: Subject to any disclaimer, the term of this
 patent is extended or adjusted under 35
 U.S.C. 154(b) by 157 days.

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(21) Appl. No.: **10/128,446**

(22) Filed: **Apr. 23, 2002**

(65) **Prior Publication Data**

US 2002/0163006 A1 Nov. 7, 2002

(30) **Foreign Application Priority Data**

Apr. 25, 2001 (MY) PI 2001 1952

(51) **Int. Cl.**⁷ **H01L 33/00**

(52) **U.S. Cl.** **257/99**

(58) **Field of Search** 257/79, 81, 98-100

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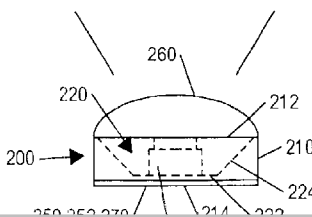
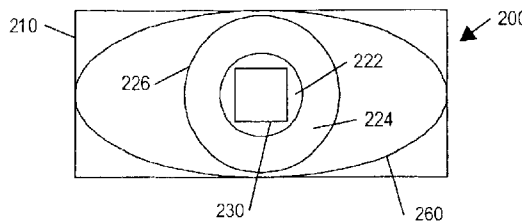
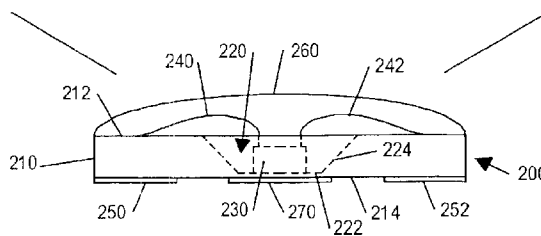
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Primary Examiner—David A. Zarneke

(57) **ABSTRACT**

A light source suitable for surface mounting onto a printed circuit board. The light source includes a planar substrate with a centrally positioned aperture. A light emitting diode is mounted on a metallic layer covering the bottom of the aperture, and is encapsulated by a transparent encapsulant material. The metallic layer provides a thermal path for heat generated by the light emitting diode.

11 Claims, 14 Drawing Sheets



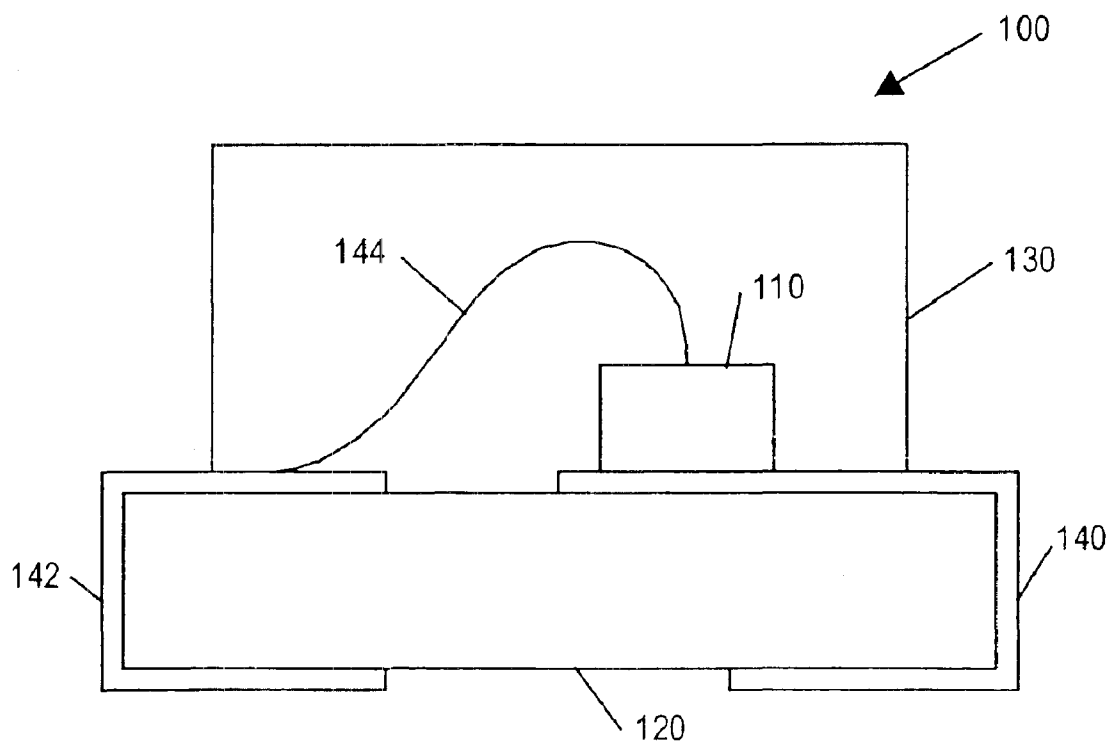


FIG 1

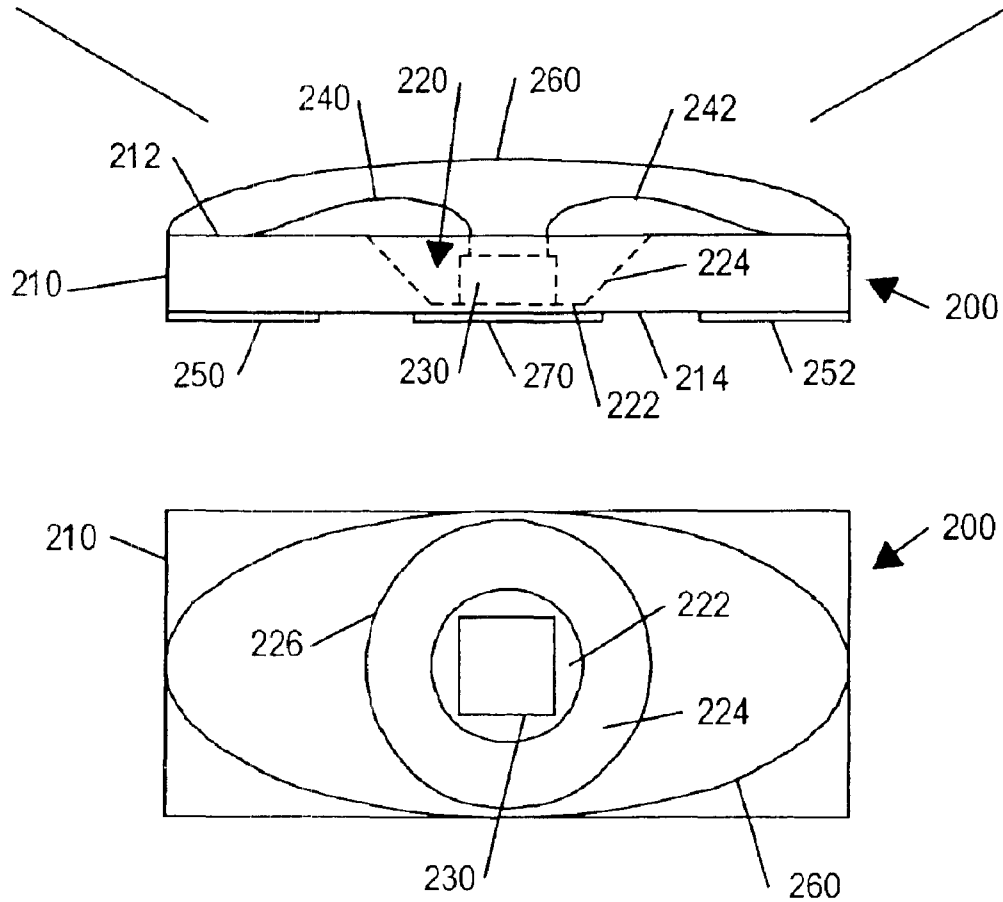
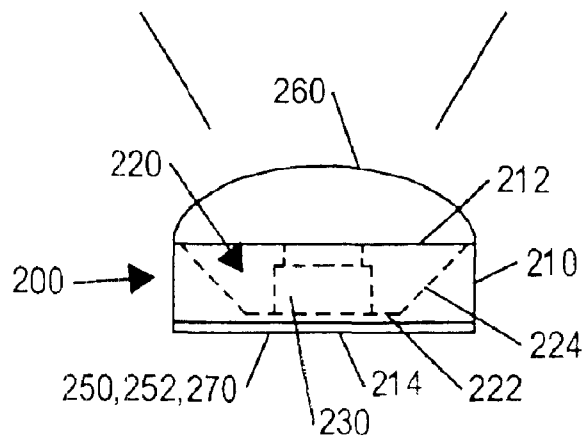


FIG 2



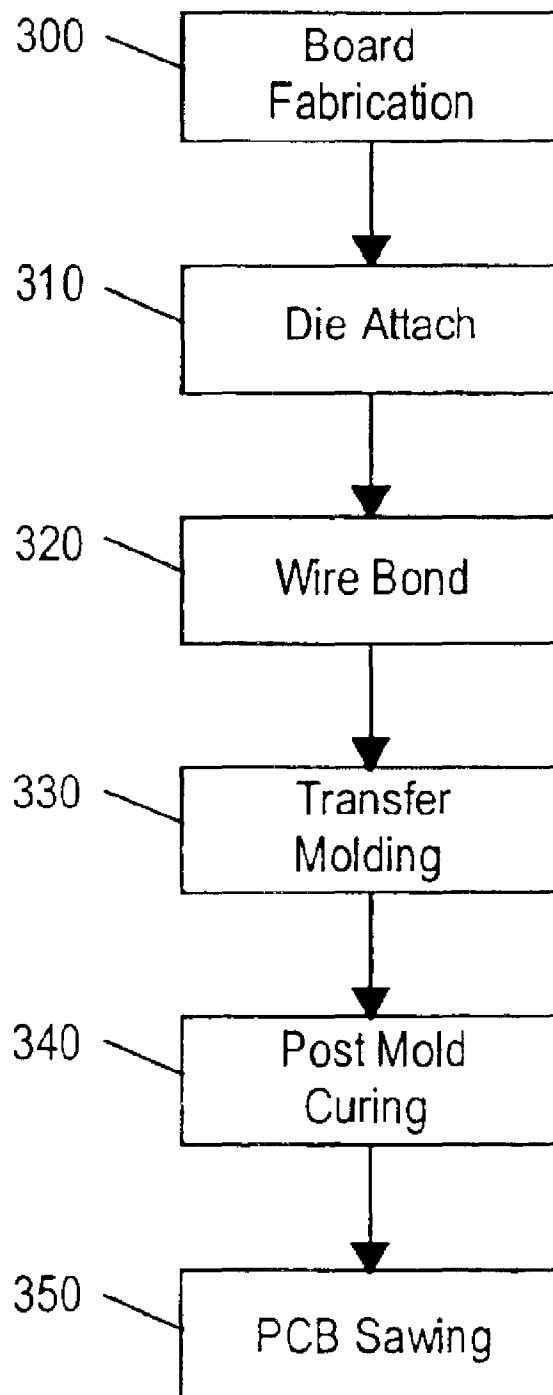


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