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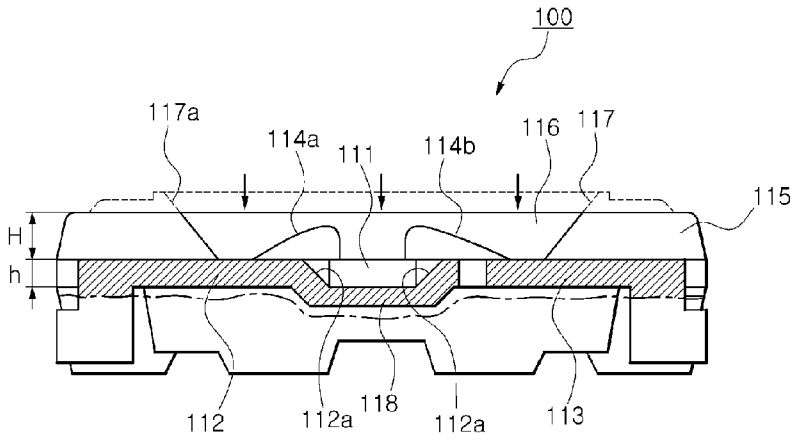
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[Continued on next page]

(54) **Title**: LIGHT EMITTING DIODE PACKAGE



[Fig. 3]

(57) **Abstract**: There is provided a light emitting diode (LED) package. The LED package includes A light emitting diode (LED) package includes a pair of lead frames connected with at least one LED chip through a metal wire, a package body integrally fixed with the lead frames and having a cavity having an open top, a lead frame bent downwardly to a lower part of an external mounting surface of the package body, a light-transmissive, transparent resin covering the LED chip and filling the cavity, a recess formed in a bottom surface of the cavity, in which the LED chip is mounted, and a transparent resin including a fluorescent material formed in the recess and the cavity. Accordingly, the amount of light-transmissive, transparent resin filling the cavity is reduced to save on manufacturing costs, and the height of the resin is lowered to improve the luminance of light. Also, the height of the package body is lowered, contributing to manufacturing a small product.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

H01L 33/00(2006.01)i

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)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Utility models and applications for Utility models since 1975

Japanese Utility models and applications for Utility models since 1975

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

eKIPASS(KIPO internal): LED, cavity, lead frame, recess

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KR 10-0772433 B1 (SEOUL SEMICONDUCTOR CO., LTD.) 26 October 2007 See abstract and figure 4	1-3, 6
A		4-5
A	JP 2002-223005 A (TOYODA GOSEI CO., LTD.) 09 August 2002 See abstract and figure 1	1-6
A	KR 10-2007-0000638 A (SAMSUNG ELECTRO-MECHANICS CO., LTD.) 03 January 2007 See abstract and figure 4	1-6
A	US 2007-0262336 (TAMAKI, HIROTO et al.) 15 November 2007 See abstract and figure 8	1-6

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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"&" document member of the same patent family

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US 2007-0262336 A1	15.11.2007	None	