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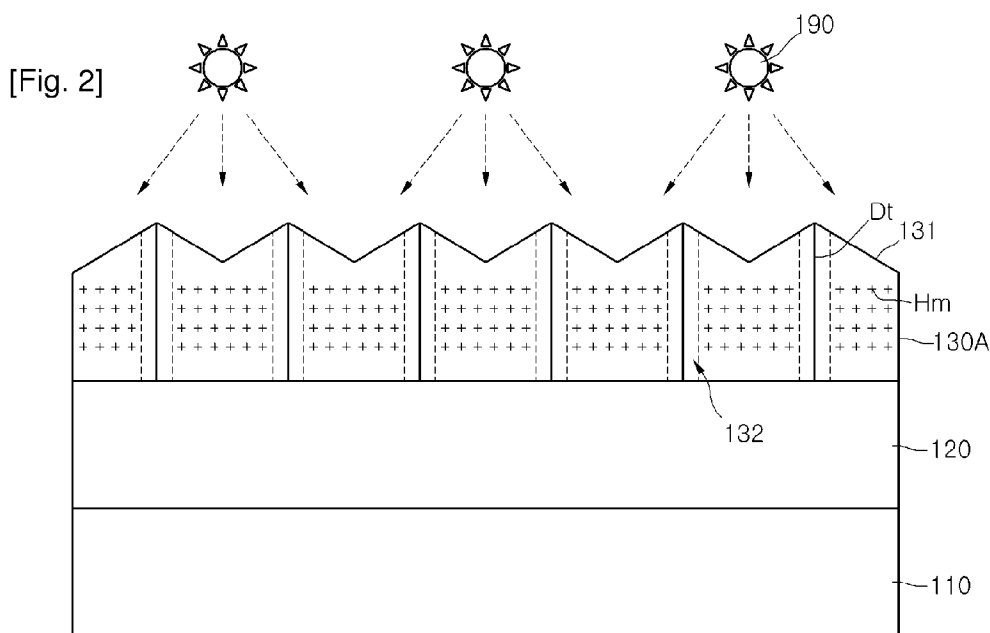
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[Continued on next page]

(54) Title: SEMICONDUCTOR LIGHT EMITTING DEVICE AND METHOD OF MANUFACTURING THE SAME



(57) Abstract: A semiconductor light emitting device and a method of manufacturing the same are provided. The semiconductor light emitting device comprises a first semiconductor layer emitting electrons, a second semiconductor layer emitting holes, and an active layer emitting light by combination of the electrons and holes. At least one of the layers comprises an photo enhanced minority carriers.



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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)

IPC

H01L 33/00, H01L21/314, C30B25/00

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)

e-KIPASS(KIPO internal) : "Light emitting diode", "photo-enhanced", "minority carrier"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	Junjiroh Kikawa et al. "Electroluminescence studies under forward and reverse bias conditions of a nitride-rich GaN1-xPx SQW structure LED grown by laser-assisted metal-organic chemical vapor deposition" SOLID-STATE ELECTRONICS 47, pp.523-527(2003)	16 1-15,17-20
A	US 4904337 A (Elliott et al.), 27 February 1990 See the abstract, figure 1B, column 6 lines 37-61	1-20
A	US 5909051 A (Stockman et al.), 01 June 1999 See the abstract, figures 1-8, column 1 line 11 - column 2 line 42	1-20
A	JP 08-255927 A (ROHM CO LTD), 01 October 1996 See the abstract, figures 1-3, paragraphs [0024]-[0026]	1-20

 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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INTERNATIONAL SEARCH REPORT

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 4904337 A	27.02.1990	NONE	
US 5909051 A	01.06.1999	DE 19615179 A1 GB 2301934 A GB 9611093 D0 JP 08-330626 A JP 3682938 B2 US 2002-0003237 A1 US 6794731 B2	12.12.1996 18.12.1996 31.07.1996 13.12.1996 17.08.2005 10.01.2002 21.09.2004
JP 08-255927 A	01.10.1996	NONE	