

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 8 H01L 33/00

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)

eKIPASS(KIPO internal): LED, insulation layer, void, ESD

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2006-324669 A (SAMSUNG ELECTRO-MECHANICS CO., LTD.) 30 November 2006 See abstract and figure 2	1-15
A	KR 10-0700529 B (LG ELECTRONICS INC. et al.) 21 March 2007 See abstract and figure 3	1-15
A	JP 2006-237254 A (TOYODA GOSEI KK) 07 September 2006 See abstract and figure 1	1-15
A	WO 2006-068377 A1 (LG INNOTEK CO., LTD.) 29 June 2006 See paragraph [12] and figure 10	1-15

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

30 MARCH 2009 (30.03.2009)

Date of mailing of the international search report

30 MARCH 2009 (30.03.2009)

Name and mailing address of the ISA/KR

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2008/005266

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 2006-324669 A	30.11.2006	KR 10-0638818 B1 US 7479661 B2	19.10.2006 20.01.2009
KR 10-0700529 B	21.03.2007	None	
JP 2006-237254 A	07.09.2006	None	
WO 2006-068377 A1	29.06.2006	CN 101069290 A EP 1829119 A1 JP 2008-526015 A KR 10-0580751 B1	07.11.2007 05.09.2007 17.07.2008 09.05.2006