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(71) Applicant (for all designated States except US): OSRAM SYLVANIA Inc. [US/US]; 100 Endicott Street, Danvers, Massachusetts 01923 (US).

(72) Inventors: and

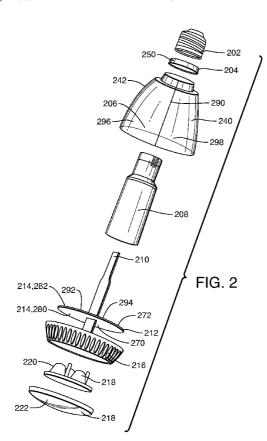
(75) Inventors/Applicants (for US only): HUANG, Michelle Kun [CN/US]; 28 Bridge Street Apt. 2, Manchester, Massachusetts 01944 (US). FREEMAN, Glenn [US/US]; 11

Cheever Street, Danvers, Massachusetts 01923 (US). LEE, **Junwon** [KR/US]; 9 Mary Lou Lane, Andover, MA 01810 (US).

- (74) **Agent:** MONTANA, Shaun, P.; 100 Endicott Street, Danvers, Massachusetts 01923 (US).
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(54) Title: LAMP WITH APPEARANCE DIFFERENTIATED FROM ITS MAIN ILLUMINATION



(57) Abstract: A lamp including a two-sided source plate, a plurality of light sources, a lens, a diffuser plate, and a driver insulator is disclosed. One set of the light sources generates white light and is attached to one side of the source plate. Another set of the light sources generates colored light and is attached to the source plate's other side. The lens encapsulates the white light-generating set, and redirects that white light. The driver insulator and the diffuser plate are each in contact with the source plate's other side. The driver insulator, diffuser plate, and that side of the source plate define a light box region that contains the colored light-generating set of light sources. The driver insulator acts as a reflector, and the diffuser plate acts as a diffuser, such that colored light is dispersed from the light box region through the diffuser plate.

ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- as to the identity of the inventor (Rule 4.17(i))
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(U))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(Hi))

- of $i_{nventorsh}i_{p}$ (Rule 4.17/ i_{v}))

Published:

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A. CLASSIFICATION OF SUBJECT MATTER

F21 V 5/00(2006.01)i, F21 V 5/04(2006.01)i

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

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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

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) eKOMPASS(KIPO internal) & Keywords lamp, reflector, diffuser

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	US 5749646 Al (GERALD A. BRITTELL) 12 May 1998 See the abstract ; column 6, 1 ines 12-43 , column 7, 1 ines 11-26 , 44-59 , c laim 1 and f igures 5A, 5B, 7A, 7B.	1-16
A	wo 2007-069185 Al (KONINKLIJKE PHILIPS ELECTRONICS N V et a1.) 21 June 2007 See the abstract ; page 4, 1 ine 17 – page 5, 1 ine 10; c1 aims 1, 3, 7 and figure 2	1-16
A	JP 2004-095288 A (ICHIKOH IND. LTD.) 25 March 2004 See the abstract , paragraphs [0019] , [0027]-[0029] , claims 1,2 and figure 1	1-16

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

- * Special categories of cited documents
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- "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
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Korean Intellectual Property Office Government Complex-Daejeon, 139 Seonsa-ro, Seogu, Daejeon 302-701, Republic of Korea

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Authorized officer

LEE, Young Su

Telephone No 82-42-481-5698



 $\begin{array}{ccc} {\tt INTERNATIONAL} & {\tt SEARCH} & {\tt REPORT} \\ & {\tt Information} & {\tt on patent family members} \end{array}$

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		101/0	1 6 17 6 5 2 0 0 7 0 0 0 4 0 5	
Patent document cited in search report	Publication date	Patent family member(s)	Publication date	
US 5749646 A1	12.05.1998	None		
WO 2007-069185 A1	21.06.2007	CN 101326399 A EP 1963735 A1 JP 2009-518803 A KR 10-2008-0086501 A US 2008-298054 A1	17.12.2008 03.09.2008 07.05.2009 25.09.2008 04.12.2008	
JP 2004-095288 A	25.03.2004	None		