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(54) **Title:** LIGHTING DEVICE AND METHOD OF MAKING

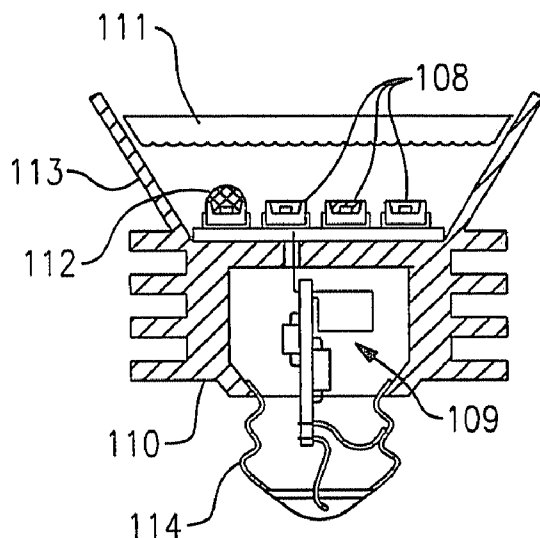


Fig. 5

(57) **Abstract:** A lighting device comprising first and second groups of non- white light sources emitting light outside a first area on a 1976 CIE Chromaticity Diagram bounded by a curves 0.01 u'v' above and below the black-body locus and within a second area enclosed by saturated light curves from 430 to 465 nm and from 560 to 580 nm and segments from 465 to 560 nm and from 580 to 430 nm and a supplemental light emitter in the range of 600 to 640 nm. Also, a lighting device, comprising a first string of non-white phosphor converted light sources with excitation sources having dominant wavelengths that differ by at least 5 nm, a second string of non- white light sources, and a third string of supplemental light emitters in the range of 600 to 640 nm.

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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

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

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2009/049019 A1 (CREE LED LIGHTING SOLUTIONS [US]; VAN DE VEN ANTONY PAUL [CN]; NEGLEY) 16 April 2009 (2009-04-16) abstract page 4, line 1 - page 6, line 11 page 6, line 13 - page 15, line 31 figures 2-35 -----	1-21
X	US 7 213 940 B1 (VAN DE VEN ANTONY PAUL [HK] ET AL) 8 May 2007 (2007-05-08) the whole document -----	1-21
X	WO 2008/139369 A1 (PHILIPS INTELLECTUAL PROPERTY [DE]; KONINKL PHILIPS ELECTRONICS NV [NL]) 20 November 2008 (2008-11-20) the whole document -----	1-21
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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A	WO 2009/158514 A1 (TELELUMEN LLC [US]; PAOLINI STEVEN [US]) 30 December 2009 (2009-12-30) the whole document -----	1-21
A	WO 2008/041153 A1 (PHILIPS INTELLECTUAL PROPERTY [DE]; KONINKL PHILIPS ELECTRONICS NV [NL] 10 April 2008 (2008-04-10) the whole document -----	1-21
A	WO 2009/015327 A1 (LUMINATION LLC [US]; MRAKOVICH MATTHEW STEVEN [US]) 29 January 2009 (2009-01-29) the whole document -----	1-21
A	US 2006/285325 A1 (DUCHARME ALFRED D [US] ET AL) 21 December 2006 (2006-12-21) the whole document -----	1-21

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