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— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

Published:

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[Continued on next page]

(54) **Title**: CONSISTENT COLOUR CALIBRATION IN LED-BASED LIGHTING INFRASTRUCTURE

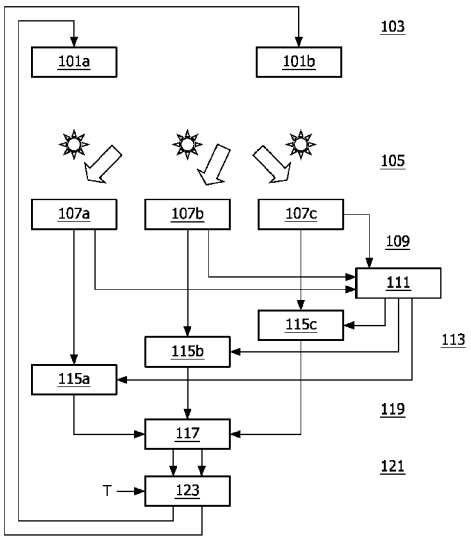

FIG. 1

(57) **Abstract**: The present invention relates to colour generation in an indoor or outdoor lighting device, and more particularly to a control method which provides spatially consistent colour control of a lighting device designed for use in, e.g., spatially extended premises or environments containing obstacles, and thus including multiple light sensors to allow efficient control. Colour consistency is achieved by an arrangement where light of one or more of the light sources impinges on more than one light sensor. If constructional detector features, such as filter characteristics, coincide, then these sensors should in principle, after the appropriate processing, report identical colour points of the light source under consideration. Indeed, colour is a path-independent property of light, and this is the basis for a mutual calibration scheme of the detectors according to the invention. The calibration scheme is part of a control algorithm and is intended for use in place of a conventional control algorithm, either intermittently or permanently.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
INV. H05B33/08

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)
H05B

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)
EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 7 315 139 B1 (SELVAN MANIAM [MY] ET AL) 1 January 2008 (2008-01-01) the whole document	1-16
A	US 2005/062446 A1 (ASHDOWN IAN [CA]) 24 March 2005 (2005-03-24) the whole document	1-16

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

☒ See patent family annex.

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 7315139 B1	01-01-2008	NONE	
US 2005062446 A1	24-03-2005	US 2008224024 A1	18-09-2008