

Title (en)
SYSTEMS AND METHODS FOR GENERATING AND MODULATING ILLUMINATION CONDITIONS

Title (de)
SYSTEME UND VERFAHREN ZUR ERZEUGUNG UND MODULIERUNG VON BELEUCHTUNGSBEDINGUNGEN

Title (fr)
SYSTEMES ET PROCEDES DE GENERATION ET DE MODULATION DES CONDITIONS D'ECLAIRAGE

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Application
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- US 23567800 P 20000927
- EP 05076817 A 20001120
- EP 00980578 A 20001120
- US 0031877 W 20001120

Abstract (en)
The invention relates to a lighting fixture (300, 5000) for generating white light, said fixture comprising a plurality of component illumination sources (320, 5007), said plurality including component illumination sources arranged to produce electromagnetic radiation of at least two different spectrums (1201, 1301) and a mounting (5005) holding said plurality, said mounting designed to allow said spectrums of said plurality to mix and form a resulting spectrum (2201, 2203) that is continuous within the photopic response of the human eye and/or continuous in the region from 400 nm to 700 nm. The plurality of component illumination sources consists of only LEDs, the LEDs including a first white LED, including a phosphor, to produce a first spectrum (1201) of the at least two different spectrums, and a second white LED, including a phosphor, to produce a second spectrum (1301) of the at least two different spectrums. The lighting fixture further comprises a processor (316) responsive to data and configured to independently control the first white LED and the second white LED based on the data such that an intensity of the first white LED and the second white LED may be varied thereby to vary a color temperature of the resulting spectrum within a preselected range of color temperatures and the lighting fixture is adapted to be connected to a data network and provided with a data connection (350) of the data network over which data from an external device is received by the processor of the lighting fixture.

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Citation (applicant)

- US 6016038 A 20000118 - MUELLER GEORGE G [US], et al
- US 21562498 A 19981217
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Citation (search report)

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- [I] US 5803579 A 19980908 - TURNBULL ROBERT R [US], et al
- [A] EP 0862794 A1 19980909 - SIEMENS AG [DE]
- [A] JP H10112557 A 19980428 - NICHIA KAGAKU KOGYO KK

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