

Title (en)

COLOR-VARIABLE LED LIGHT, PARTICULARLY FOR LIGHTING THE INTERIOR OF VEHICLES

Title (de)

FARBVERSTELLBARE LED-LEUCHTE, INSBESONDERE ZUR FAHRZEUGINNENBELEUCHTUNG

Title (fr)

LAMPE À DEL DE COULEUR VARIABLE, DESTINÉE EN PARTICULIER À L'ÉCLAIRAGE INTÉRIEUR DE VÉHICULES

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2008125672A1] The invention relates to an LED light, particularly a reading or seat lamp for vehicles such as travel coaches or airplanes, said light being equipped with a housing (36), a plurality of LEDs comprising first LEDs (16) that transmit electromagnetic radiation in a first wavelength range, and an activation unit (12) for activating the first LEDs (16). The LED light further comprises a conversion material (24) that, upon excitation by at least part of the electromagnetic radiation from the first LEDs (16), emits electromagnetic radiation in a conversion wavelength range that is in the visible spectrum range and is at least partially different from the first wavelength range. The LEDs further comprise second LEDs (18) that, in order to shift the color of the electromagnetic radiation emitted by the conversion material (24) upon excitation by the electromagnetic radiation emitted by the first LEDs (16), emit electromagnetic radiation in a second wavelength range. The second LEDs (18) may be selectively activated by the activation unit (12) in addition to the first LEDs (16), wherein the electromagnetic radiation from the second LEDs (18) is at least partially in the visible spectrum range and is at least partially different from the wavelength range of the first LEDs (16) and passes the conversion material (24) substantially without exciting said conversion material and/or wherein the electromagnetic radiation of the second LEDs (18) additionally excites the conversion material (24) to emit electromagnetic radiation, the wavelength range of which is inside or outside of the conversion wavelength range.

IPC 8 full level

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See references of WO 2008125672A1

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