

Title (en)

Lighting device capable of adjusting brightness and color of light

Title (de)

Beleuchtungsanordnung mit Möglichkeit zur Einstellung von Helligkeit und Farbe des Lichts

Title (fr)

Dispositif d'éclairage permettant de régler la luminosité et la couleur de la lumière

Publication

EP 1379111 A1 20040107 (EN)

Application

EP 02015139 A 20020706

Priority

EP 02015139 A 20020706

Abstract (en)

Lighting device that can diversely adjust brightness and color of the light in accordance with a user's taste. The lighting device includes an external power supply, a rectifying section (10), a stabilizing section (20), and an adjustment section for lighting at least two lamps having different color temperature in the range of about 1600-2700 DEG K and 5000-10000 DEG K respectively, so that color and brightness of the emitted light are adjusted by manipulation of the adjustment section. The two lamps are tubes having multiwaves by mixing three or more fluorescent powders to change the brightness and the color. The tubes represent a tube section (30). The lighting device further includes a manipulation section (40) composed of a display for displaying an adjustment state of the brightness and the color of the light within a predetermined range, and an adjustment switch for adjusting the brightness and the color within the predetermined range. <IMAGE>

IPC 1-7

H05B 41/38

IPC 8 full level

H05B 37/02 (2006.01); **H05B 41/36** (2006.01)

CPC (source: EP US)

H05B 41/36 (2013.01 - EP US); **H05B 47/10** (2020.01 - EP US)

Citation (search report)

- [X] US 2002047647 A1 20020425 - NOH SHI-YOUL [KR]
- [Y] DE 20002060 U1 20000608 - WILA LEUCHTEN AG SEVELEN [CH]
- [Y] US 4045664 A 19770830 - VRENKEN LOUIS EUGENE, et al
- [Y] US 5592052 A 19970107 - MAYA JAKOB [US], et al
- [A] GB 2282723 A 19950412 - KNIGHT RAY [GB]
- [Y] DAVIS R G ET AL: "CORRELATED COLOR TEMPERATURE, ILLUMINANCE LEVEL, AND THE KRUITHOF CURVE", JOURNAL OF THE ILLUMINATING ENGINEERING SOCIETY, ILLUMINATING ENGINEERING SOCIETY. NEW YORK, US, vol. 19, no. 1, 21 December 1990 (1990-12-21), pages 27 - 38, XP001057457, ISSN: 0099-4480

Cited by

EP2076096A1; CN115665919A; WO2008150392A1; WO2018195958A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

EP 1379111 A1 20040107

DOCDB simple family (application)

EP 02015139 A 20020706