Title (en)
INTELLIGENT ILLUMINATION DEVICE

Title (de)
INTELLIGENTE BELEUCHTUNGSVORRICHTUNG

Title (fr)
DISPOSITIF D'ÉCLAIRAGE INTELLIGENT

Publication
EP 2454922 A4 20170329 (EN)

Application
EP 10800143 A 20100707

Priority
• US 2010001919 W 20100707
• US 22490409 P 20090712

Abstract (en)
[origin: WO2011008251A2] Intelligent illumination device are disclosed that use components in an LED light to perform one or more of a wide variety of desirable lighting functions for very low cost. The LEDs that produce light can be periodically turned off momentarily, for a duration that the human eye cannot perceive, in order for the light to receive commands optically. The optically transmitted commands can be sent to the light, for example, using a remove control device. The illumination device can use the LEDs that are currently off to receive the data and then configure the light accordingly, or to measure light. Such light can be ambient light for a photosensor function, or light from other LEDs in the illumination device to adjust the color mix.

IPC 8 full level
H05B 37/02 (2006.01); **H05B 44/00** (2022.01)

CPC (source: EP KR US)
H05B 45/10 (2020.01 - EP KR US); **H05B 45/3725** (2020.01 - EP KR US); **H05B 47/11** (2020.01 - EP US); **H05B 47/16** (2020.01 - EP US); **H05B 47/19** (2020.01 - EP KR US); Y02B 20/40 (2013.01 - EP KR)

Citation (search report)
• [XAYI] JP 2008300152 A 20081211 - NAKAGAWA KENKYUSHO KK
• [XYI] US 2006056855 A1 20060316 - NAKAGAWA MASAO [JP], et al
• [Y] JP 2002353900 A 20021206 - NAKAYO TELECOMMUNICATIONS
• [Y] US 2008304833 A1 20081211 - ZHENG RUOBIN [CN]
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• [A] WO 2008065607 A2 20080605 - PHILIPS INTELLECTUAL PROPERTY [DE], et al
• See references of WO 2011008251A2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
WO 2011008251 A2 20110120; **WO 2011008251 A3 20110421**; CN 102577622 A 20120711; CN 102577622 B 20141015; EP 2454922 A2 20120523; EP 2454922 A4 20170329; JP 2012533164 A 20121220; JP 5847711 B2 20160127; KR 20120042978 A 20120503

DOCDB simple family (application)
US 2010001919 W 20100707; CN 201080032373 A 20100707; EP 10800143 A 20100707; JP 2012520587 A 20100707; KR 20127003792 A 20100707