

Title (en)
Semiconductor-light-source control device

Title (de)
Halbleiterlichtquellensteuerungsvorrichtung

Title (fr)
Dispositif de commande de source lumineuse avec semi-conducteur

Publication
EP 2675246 A2 20131218 (EN)

Application
EP 13171423 A 20130611

Priority
JP 2012132575 A 20120612

Abstract (en)
A semiconductor-light-source control device includes a regulator and a driving control section. The regulator generates a driving current flowing through a semiconductor light source. The driving control section controls the regulator so that a magnitude of the driving current approaches a target value. A luminance of the semiconductor light source is adjusted by repeating a first state in which the magnitude of the driving current is controlled to approach the target value and a second state in which the driving current is smaller than that in the first state. Both the duty ratio of the first and second states and the target value change according to a setting value of the luminance of the semiconductor light source. One of the target value and the duty ratio is set so as to have a one-to-one correspondence relationship with the setting value.

IPC 8 full level
H05B 44/00 (2022.01)

CPC (source: EP US)
H05B 45/10 (2020.01 - EP US); **H05B 45/3725** (2020.01 - EP US)

Citation (applicant)
• US 2010181914 A1 20100722 - KASABA YUSUKE [JP], et al
• JP 2010170704 A 20100805 - KOITO MFG CO LTD
• JP 2005332586 A 20051202 - CALSONIC KANSEI CORP

Cited by
CN103747569A; EP3076758A1; US9623791B2

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 RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2675246 A2 20131218; EP 2675246 A3 20150513; CN 103491670 A 20140101; CN 103491670 B 20160518; JP 2013258003 A 20131226

DOCDB simple family (application)
EP 13171423 A 20130611; CN 201310226286 A 20130607; JP 2012132575 A 20120612