

Title (en)
Light source control device

Title (de)
Lichtquellensteuervorrichtung

Title (fr)
Dispositif de commande de source lumineuse

Publication
EP 2800457 A2 20141105 (EN)

Application
EP 14002488 A 20130611

Priority
• JP 2012131581 A 20120611
• JP 2012242710 A 20121102
• EP 13171471 A 20130611

Abstract (en)
A light source control device comprises a first bypass switch connected in parallel to one part of semiconductor light sources, and a second bypass switch connected in series to the first bypass switch and in parallel to another part of the semiconductor light sources. In a connection line connecting a connection node between the first and the second bypass switches and a connection node between the one part and the another part of the semiconductor light sources, a polarity of a current flowing in the connection line when the first bypass switch is off and the second bypass switch is on is opposite to a polarity of the current flowing in the connection line when the first bypass switch is on and the second bypass switch is off. When a poor continuity is generated in the connection line, the first and the second bypass switches are forcedly turned on.

IPC 8 full level
H05B 44/00 (2022.01)

CPC (source: EP US)
H05B 45/48 (2020.01 - EP US); **H05B 45/54** (2020.01 - EP US)

Citation (applicant)
JP 2011192865 A 20110929 - KOITO MFG CO LTD

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 2675247 A1 20131218; EP 2675247 B1 20200805; CN 103491668 A 20140101; CN 103491668 B 20170426; CN 104902630 A 20150909; CN 104902630 B 20190219; EP 2800457 A2 20141105; EP 2800457 A3 20150826; EP 2800457 B1 20210804; JP 2014017463 A 20140130; JP 6030922 B2 20161124

DOCDB simple family (application)
EP 13171471 A 20130611; CN 201310216840 A 20130603; CN 201510266442 A 20130603; EP 14002488 A 20130611; JP 2012242710 A 20121102