Title (en)

INTELLIGENT LIGHTING CONTROL MULTI-LOAD SYSTEMS APPARATUSES AND METHODS

Title (de)

MULTILASTSYSTEME, VORRICHTUNGEN UND VERFAHREN FÜR INTELLIGENTE BELEUCHTUNGSSTEUERUNG

Title (fr)

APPAREILS, PROCÉDÉS ET SYSTÈMES MULTI-CHARGE DE COMMANDE D'ÉCLAIRAGE INTELLIGENT

Publication

EP 4039066 A1 20220810 (EN)

Application

EP 20792835 A 20200930

Priority

- US 201962908506 P 20190930
- US 2020053362 W 20200930

Abstract (en)

[origin: WO2021067329A1] Intelligent lighting control systems include a dimming light control component that is configured to support multiple independent dimmable lighting loads within a single unit to be installed within one wall box. The lighting control systems efficiently utilize hardware to reduce redundant components. The systems use a single power source (e.g., branch circuit) and decouple outputs so that the on/off/dim state of one load does not affect any of the other multiple loads included in the unit. Certain embodiments provide 1 gang architecture while other embodiments may use other gang architectures such as 2 gang, 3 gang or more. The embodiments efficiently manage multiple loads with a single line/branch circuit input using one transformer constructed with multiple windings to isolate control of dimming loads in a light module from control of the other loads.

IPC 8 full level

H05B 47/175 (2020.01); **H05B 39/08** (2006.01); **H05B 47/11** (2020.01); **H05B 47/115** (2020.01); **H05B 47/19** (2020.01)

CPC (source: EP IL KR)

H05B 39/085 (2013.01 - EP IL KR); **H05B 45/10** (2020.01 - KR); **H05B 47/10** (2020.01 - KR); **H05B 47/11** (2020.01 - IL); **H05B 47/115** (2020.01 - IL); **H05B 47/175** (2020.01 - EP IL); **H05B 47/19** (2020.01 - IL); H05B 47/11 (2020.01 - EP); H05B 47/115 (2020.01 - EP); H05B 47/19 (2020.01 - EP); Y02B 20/40 (2013.01 - EP)

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)

WO 2021067329 A1 20210408; AU 2020359524 A1 20220414; CA 3156043 A1 20210408; CN 114902811 A 20220812; EP 4039066 A1 20220810; IL 291759 A 20220601; JP 2022549912 A 20221129; JP 7493034 B2 20240530; KR 20220075233 A 20220607

DOCDB simple family (application)

US 2020053362 W 20200930; AU 2020359524 A 20200930; CA 3156043 A 20200930; CN 202080082947 A 20200930; EP 20792835 A 20200930; IL 29175922 A 20220328; JP 2022519453 A 20200930; KR 20227014476 A 20200930