

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

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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)

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**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