Title (en)

RETROFIT LIGHTING SYSTEM THAT NON-INVASIVELY INTERACTS WITH A HOST MACHINE

Title (de)

NACHTRÄGLICHES BELEUCHTUNGSSYSTEM MIT NICHTINVASIVER WECHSELWIRKUNG MIT EINEM HAUPTRECHNER

Title (fr)

SYSTEME D'ECLAIRAGE ADAPTABLE APRES-COUP INTERAGISSANT DE FA ON NON INVASIVE AVEC UNE MACHINE HOTE

Publication

EP 0876658 A4 20000209 (EN)

Application

EP 97903093 A 19970123

Priority

- US 9701128 W 19970123
- US 59101496 A 19960125
- US 69897396 A 19960816
- US 78373297 A 19970116

Abstract (en)

[origin: WO9727576A1] A retrofit lighting system (100), for use with a host machine (104), produces lighting effects in response to lamp power signals that are provided from the host system (104) and that would otherwise be used to power lamps (108) of the host machine (104). An EL lamp system (108) has a plurality of EL lamp cells. Sequencing circuitry (106) provides an EL lamp driving signal to independently control each of the EL lamp cells of the EL lamp system (108) such that the EL lamp cells collectively illuminate in a sequence corresponding to the EL lamp driving signal. The microcontroller (406) controls the frequency, amplitude, and duty cycle to the electroluminescent lamps (108). By changing the frequency, the microcontroller (406) alters the intensity and illumination color. By changing the amplitude, the microcontroller (406) alters the illumination intensity. Further, data signal lines are supplied from the microcontroller (406) to select which electroluminescent lamps (108) to illuminate, thereby creating animated displays. Signal conditioning circuitry (102) non-invasively samples the lamp power signals provided from the host system (104), and provides the driving signal to the EL lamp (108) in response thereto.

IPC 1-7

G09G 3/30; G07F 17/32; G09G 3/12

IPC 8 full level

H05B 37/02 (2006.01); **G07F 17/32** (2006.01); **G09G 3/20** (2006.01); **G09G 3/30** (2006.01); **H05B 44/00** (2022.01)

CPC (source: EP KR US)

G07F 17/3211 (2013.01 - EP US); **G07F 17/3276** (2013.01 - EP); **G07F 17/3295** (2013.01 - EP); **G09G 3/30** (2013.01 - KR); **H05B 44/00** (2022.01 - EP US); Y02B 20/30 (2013.01 - EP)

Citation (search report)

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- See also references of WO 9727576A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

US 9701128 W 19970123; AU 1709097 A 19970123; BR 9707084 A 19970123; CA 2244212 A 19970123; CN 97193305 A 19970123; EA 199800606 A 19970123; EP 97903093 A 19970123; JP 51455397 A 19970123; KR 19980705788 A 19980725; NZ 33102297 A 19970123