

Title (en)

BALLAST FOR LUMINOUS MEANS HAVING A MICROPROCESSOR AND A PROGRAMMING INTERFACE

Title (de)

VORSCHALTGERÄT FÜR LEUCHTMITTEL MIT MIKROPROZESSOR UND PROGRAMMIERUNGSSCHNITTSTELLE

Title (fr)

APPAREIL BALLAST POUR MOYEN D'ÉCLAIRAGE AVEC MICROPROCESSEUR ET INTERFACE DE PROGRAMMATION

Publication

EP 3378286 B1 20220309 (DE)

Application

EP 16797910 A 20161117

Priority

- DE 202015106224 U 20151117
- EP 2016077994 W 20161117

Abstract (en)

[origin: WO2017085182A1] Ballast for luminous means, in particular LEDs, having a microprocessor with at least one memory unit and a printed circuit board, having at least one programming interface which is preferably accessible from outside the ballast and at least one signalling interface which is likewise preferably accessible from outside the ballast, wherein the microprocessor can be configured via the programming interface, and wherein at least one item of application software which can be executed by the microprocessor can be transmitted to the at least one memory unit via the programming interface, wherein the application software influences at least one of the following functionalities of the ballast: interaction with sensors, evaluation of signals transmitted to the signalling interface, control of the luminous means, activation/deactivation of interfaces of the ballast, activation/deactivation of communication protocols, acquisition, setting and/or evaluation of operating data and/or operating parameters of the ballast, setting-up of a network and linking of networks.

IPC 8 full level

H05B 47/165 (2020.01)

CPC (source: AT EP US)

H05B 47/10 (2020.01 - AT); **H05B 47/165** (2020.01 - EP US); **H05B 47/175** (2020.01 - US); **H05B 47/18** (2020.01 - AT);
H05B 47/19 (2020.01 - AT)

Citation (examination)

- US 2012086345 A1 20120412 - TRAN BAO Q [US]
- US 2015257229 A1 20150910 - WASSEL JAMES J [US], et al
- W CAELLI ET AL: "Cryptographic Application Programming Interfaces (APIs)", 1 January 1993 (1993-01-01), pages 640 - 645, XP055600804, Retrieved from the Internet <URL:https://s3.amazonaws.com/academia.edu.documents/46985566/0167-4048_2893_2990079-k20160703-6257-1edpuxa.pdf?response-content-disposition=inline;%20filename=Cryptographic_Application_Programming_In.pdf&X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIAIWOWYYGZ2Y53UL3A/20190701/us-east-1/s3/aws4_re> [retrieved on 20190701]

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

DOCDB simple family (publication)

DE 202015106224 U1 20170220; AT 16920 U1 20201215; CN 108605399 A 20180928; EP 3378286 A1 20180926; EP 3378286 B1 20220309; EP 3955705 A1 20220216; EP 3955705 B1 20240508; EP 3955705 C0 20240508; EP 4355033 A2 20240417; EP 4355033 A3 20240529; US 10257912 B2 20190409; US 2018270932 A1 20180920; WO 2017085182 A1 20170526

DOCDB simple family (application)

DE 202015106224 U 20151117; AT 3892015 U 20151222; CN 201680060417 A 20161117; EP 16797910 A 20161117; EP 2016077994 W 20161117; EP 21201386 A 20161117; EP 24153076 A 20161117; US 201615768907 A 20161117