

Title (en)
SYSTEMS AND METHODS USING ELECTRICAL RECEPTACLES FOR INTEGRATED POWER CONTROL, COMMUNICATION AND MONITORING

Title (de)
SYSTEME UND VERFAHREN MIT VERWENDUNG VON ELEKTRISCHEN ANSCHLÜSSEN FÜR INTEGRIERTE LEISTUNGSSTEUERUNG, -KOMMUNIKATION UND -ÜBERWACHUNG

Title (fr)
SYSTÈMES ET PROCÉDÉS UTILISANT DES RÉCEPTACLES ÉLECTRIQUES POUR LA COMMANDE DE PUISSANCE, LA COMMUNICATION ET LA SURVEILLANCE INTÉGRÉES

Publication
EP 3491702 A1 20190605 (EN)

Application
EP 17833145 A 20170725

Priority

- US 201662366910 P 20160726
- US 201662377962 P 20160822
- US 201615274469 A 20160923
- US 201762490527 P 20170426
- US 201762505434 P 20170512
- CA 2017050893 W 20170725

Abstract (en)
[origin: WO2018018144A1] of the Disclosure An electrical receptacle contains contacts, at least one contact for electrical connection to a hot power line and at least one contact for a neutral power line. A controlled switch, such as a TRIAC, is connected in series relationship between the contact and the hot power line. One or more sensors are provided which detect signals of the hot power line and/or the neutral power line. The processor provides activation or deactivation control to the controlled switch in response to the detected signals that are indicative of conditions relative to the first and second contacts.

IPC 8 full level
H01R 13/713 (2006.01); **G05B 15/02** (2006.01); **H01H 83/00** (2006.01); **H02B 1/04** (2006.01); **H02H 9/04** (2006.01); **H04B 3/54** (2006.01); **H04W 88/02** (2009.01); **H05B 37/02** (2006.01)

CPC (source: EP US)
H01R 13/6683 (2013.01 - EP); **H01R 13/7036** (2013.01 - EP US); **H05B 47/185** (2020.01 - EP US); **H05B 47/19** (2020.01 - EP US); **H01H 9/167** (2013.01 - EP); **H01H 9/168** (2013.01 - EP); **H01H 71/04** (2013.01 - EP); **H01R 24/78** (2013.01 - EP); **H01R 25/006** (2013.01 - EP); **H01R 2103/00** (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 2018018144 A1 20180201; **WO 2018018144 A8 20180830**; CA 3071174 A1 20180201; CN 109792125 A 20190521; CN 109792125 B 20220830; EP 3491702 A1 20190605; EP 3491702 A4 20200812

DOCDB simple family (application)
CA 2017050893 W 20170725; CA 3071174 A 20170725; CN 201780059036 A 20170725; EP 17833145 A 20170725