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61/084,616	07/29/2008		105			

CONFIRMATION NO. 3183

Jeffrey Raymond Eastlack  
301 E. 4TH ST #314  
Austin, TX 78701

## FILING RECEIPT



\*OC000000031424050\*

Date Mailed: 08/13/2008

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### Applicant(s)

Jeffrey Raymond Eastlack, Austin, TX;

Power of Attorney: None

If Required, Foreign Filing License Granted: 08/06/2008

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 61/084,616**

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Early Publication Request: No

**\*\* SMALL ENTITY \*\***

### Title

Vampire Proof Device Controlled Battery Charger System

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page 1 of 3

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This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53(c)

**Inventor(s)**

Inventor 1

**Remove**

Given Name	Middle Name	Family Name	City	State	Country i
Jeffrey	Raymond	Eastlack	Austin	TX	US

All Inventors Must Be Listed – Additional Inventor Information blocks may be generated within this form by selecting the **Add** button.**Add****Title of Invention**

Vampire Proof Device Controlled Battery Charger System

Attorney Docket Number (if applicable)

**Correspondence Address**

Direct all correspondence to (select one):

☐ The address corresponding to Customer Number ☒ Firm or Individual Name

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The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.

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Applicant claims small entity status under 37 CFR 1.27

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Signature	/Jeffrey R. Eastlack/			Date (YYYY-MM-DD)	Jul 4, 2008
First Name	Jeffrey	Last Name	Eastlack	Registration Number (If appropriate)	

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# Vampire Proof Device Controlled Battery Charger System

Inventor – J. R. Eastlack, Vampire Labs

**Abstract**— Vampire energy loss occurs when an electronic or mechanical machine consumes energy while not being utilized for any useful purpose. Vampire energy losses in consumer electronic devices are under intense scrutiny for needlessly wasting an estimated 12% of the electric power production in the United States. The current invention proposes a method to eliminate vampire energy loss in battery chargers by employing the use of a digital control circuit coupled with intelligent software algorithms to eliminate this power loss.

**Index Terms**— “Zero No Load Loss” (ZNLL), Vampire Energy Loss, Vampire Proof, Standby Power

## I. BACKGROUND

### FIELD OF INVENTION

**T**HIS invention relates to power efficient battery chargers and technology that eliminates vampire energy loss using the circuit resources of the target device for application specific shutdown intelligence of the DC power source.

The basic DC power supply or battery charger plugs into an AC source via a wall receptacle and employs the use of a step-down transformer **104**, signal rectification circuitry **106**, and voltage regulation circuitry **108**. The transformer consists of two conductively independent coils that are mutually coupled by magnetic flux when current flows in one of them. The AC current flowing in the primary coil produces a changing magnetic field within the transformer core and there by induces an electric current in the secondary coil as described by Faraday’s Law.

From transformer theory “no-load loss” is when energy loss occurs even when the secondary coil is left open or not attached to a load. According to academic literature the cause of no-load loss is attributed to eddy currents and magnetic hysteresis within the transformer core. In addition to no-load loss from the transformer, DC power supplies also incur dynamic and static power loss within the rectification and regulation circuitry. All of these combined losses within the DC power supply attribute to a significant portion of “vampire energy loss” which exists in many electronic product domains. In addition to no-load loss, it was noted during characterization experiments of charging batteries that the chargers incurred loading from the target device even after the target device battery had been charged as shown in section **706**. This power usage from the target device after the battery

is charged is defined as parasitic loading within this document. The term “parasitic” is used by Electrical Engineers to illustrate that a particular quantity is undesired in the context of a circuit or a specific application domain. Techniques have been in place to reduce no-load loss within transformers and parasitic loading of electronic devices; however the only way to completely stop no-load loss and parasitic loading of existing devices is to take the DC power supply and the target device off of the power grid.

There are existing solutions for reducing vampire power loss but they are markedly different from the proposed invention.

The first of these inventions is the USB Ecostrip. In the design of this USB connected power strip, the power bus of a standard USB compliant port of a host device is used to provide the power to the switching mechanisms of the power strip. If the USB host is turned off then the power strip has no power for other devices on the power strip. In another power strip design called the Smart Power Strip, one master outlet on the strip controls six other slave outlets. When the power usage of the master outlet decreases, it automatically turns off the slave outlets.

Next is an invention titled “Vampire Proof Analog Controlled Mobile Device Battery Charger” (US patent application number 61078365) proposed by the same inventor of this invention but involves analog control circuits for application specific shutdown intelligence of the charger. The problem with this invention is that it is not ideal for all use cases of battery operated devices. The user must initiate the charging session by pressing the push button switch, and then the control circuit disconnects the charger from the power grid once the battery has charged. Each session must be initiated by the pushbutton switch and if the battery is drained by standby mode or actual use of the device then the push button must be pressed again.

These inventions differ from the proposed invention as they lack application specific shutdown intelligence for all use cases. Both power strips monitor the power usage of a master device and make the assumption that a slave device adheres to the same use case as the master device. There are many possible cases where slave devices require power during times that a master device does not. These conditions may limit the functionality of both the USB Ecostrip and the Smart Power Strip for many peripheral devices which could result in vampire energy loss. The “Vampire Proof Analog Controlled

Mobile Device Battery Charger” eliminates vampire energy loss but is not capable of maintaining a charged battery once the charge session has completed which may be necessary for some devices and use cases.

Therefore, there is a need for a battery charger which eliminates the vampire energy loss and capable of maintaining a charged battery even after the completion of the charge session.

## II. SUMMARY

The “Vampire Proof Target Device Controlled Battery Charger System” employs support hardware and the built-in battery monitoring capabilities of the target device to make a decision on when to disconnect itself and the charger from the electric power grid. Control algorithms will be used to monitor the digitized status of the battery and digitally control the “on current” to the opto-coupled relay to allow AC power to the charger components. This allows CPU control of the battery charger which allows use case flexibility for many CPU controlled mobile devices which are commonly used while plugged in such as laptop computers and other mobile devices which are illustrated in **FIG. 5**. It also allows the employment of non-linear charging regiments to increase the health and life of the battery.

The “Vampire Proof Target Device Controlled Battery Charger System” eliminates all components of vampire energy loss in this particular application domain which includes the “no load loss” of the step down transformer **104**, static and dynamic power consumption of the signal rectification **106** and regulation **108** circuitry within the device battery charger **112**, and the post charge parasitic loading of the connected mobile device **110**. The Target Controlled Vampire Proof ZNLL mobile device battery charger circuitry has been designed to be integrated into future charger designs and require hardware and software support from the target device.

## III. DESCRIPTION OF THE DRAWINGS

**FIG. 1** shows the basic components of a typical battery charger without vampire proof capabilities.

**FIG. 2** shows an application block diagram that illustrates the integration of the target controlled relay circuit with future charger designs and the necessary circuit support from future mobile devices.

**FIG. 3** outlines the basic block components of the target controlled charger system with arrows representing the flow of the operational signals between the target device and the charger. The blocks on the left illustrate hardware on the charger and blocks on the right depict hardware on the target device.

**FIG. 4** shows the design schematic of the necessary hardware from the target and the charger’s relay circuitry. The diagram also illustrates connection ports which map to signals in the block diagram shown **FIG. 2**.

**FIG. 5** illustrates an image of how the charger hardware of the vampire proof target controlled charger system could be realized with the push button switch and the required six terminal connection port.

**FIG. 6** illustrates how the invention concept could be expanded to other products. The examples include various types of battery operated portable devices that require frequent battery charging and could be capable of monitoring the charge level of the battery.

**FIG. 7** shows a usage flow chart that illustrates temporal operation between the user initiated charging session, and the target devices control algorithm.

## IV. DETAILED DESCRIPTION

The Vampire Proof target controlled mobile device battery charger system requires hardware and software support from the target device. The majority of battery operated mobile devices today employ the use of battery monitor **316** for a variety of reasons. This proposed invention will expand the need for such capabilities as they will be employed by the control algorithm of this charger system.

The charger system uses a voltage signal that is referred to as the “source signal” **302** by the target device, a feedback loop that is referred to as the “source feedback” **304** of the source signal **302** from the charger back to a “feedback sense” input buffer **306** of the target device. This feedback can only occur when the target device is connected to the charger and thus serves as a detection mechanism for the control algorithm described in **FIG. 7**. A logic state change on the feedback sense input buffer **306** will trigger an interrupt by the interrupt controller **308** to initiate an interrupt service routine (ISR) by the CPU **310**. Based on the strength of the battery reported by the battery monitor **316**, the control algorithm as described in **FIG. 7** will make the decision to provide the “on current” to the AC relay circuit **314** on the charger **216** via the output buffer **312**.

The voltage source signal **302** is simply connected by node **424** to the IO supply **408** of the system on a chip (SoC). A ground connected decoupling capacitor **426** is placed in parallel to the IO supply **408** in order to reduce noise. The source signal **302** maps to signal **206** and is connected to signal **208** via the source feedback circuit **304** which electrically shorts the two signals **206** and **208** together as described by connection **412**. The feedback loop serves as the detection mechanism for the feedback sense input buffer **306** on the target device. Modern SoC’s employ widespread use of General Purpose Input Output (GPIO) hardware for a large



variety of applications and are used in this invention for the output buffer 312 and feedback sense input 306. In FIG. 4 the output buffer 312 is the last stage of the MOSFET inverter chain found on SoC IO signals and is composed of pFET 418 and nFET 420. Feedback sense input buffer 306 is conversely the first stage of the input inverter chain and is composed of pFET 414 and nFET 416. The logical equivalent of the input voltage present at signal 208 will be mapped to an internal register address that can be accessed by the CPU 310 of the SoC. When the voltage state of signal 208 is changed by the user connecting or disconnecting the charger from the device, the interrupt controller 308 will trigger an ISR for the CPU 310 to service. A high valued pull down resistor 422 is used to keep the input port from “floating” while not connected to the charger. When the control algorithm decides that the battery needs charging the CPU will write a logic 1 to the register address that maps to the GPIO output buffer 312 which is the last stage of the inverter chain with an output value that is the inverted value of signal 406. The GPIO port employed as output buffer 312 must be capable of providing the necessary on current to the AC relay circuit 314 composed of an opto-coupled relay 402 and a current limiting resistor 404.

FIG. 7 is a flow chart that describes the user operations to initiate a charge session in which the user must plug in the charger and connect the device as described in step 704. In the case where the device battery is completely discharged the user must hold down the push button switch 502 until the device boots up and the control algorithm is able to source the “on current” to the AC relay circuit 314. At step 710, the target device 110 will be able to source the “on current” to the relay circuit. The CPU 310 will then check the status of the GPIO input port employed as the feedback sense input buffer 306 by polling the internal register address that maps to that particular GPIO signal. If the feedback signal is not present then the target device is not connected to the charger and the CPU will exit the ISR, if the feedback signal is present then the CPU will write a logic ‘1’ to the GPIO output port that is being employed as the output buffer 312, which will source the “on current” to the AC relay circuit 314 thus turning on the charger circuit to charge the battery. The CPU will then monitor the digitized charge strength status of the battery via the battery monitoring circuitry 316 while keeping the “on current” to the AC relay circuit 314 as described in step 714. At step 716 a check of historical information on the same charge session is performed to determine if the charge strength is increasing over time. If the battery strength is not increasing over time the control algorithm determines that the charger not connected to the wall receptacle and the CPU will then disables the “on current” to the relay circuit 314 to preserve battery strength. Other methods to determine if the charger is connected to the device without the charger connected to the AC source from the wall receptacle could include the uses of another GPIO port configured as an input. This input port could be connected to the level shifted voltage of the charger’s supply voltage. This input could be then incorporated into the control algorithm as a flag to signal the connection status of

the charger to the wall receptacle.

When the battery is charged the CPU will write a logic ‘0’ to the output buffer 312 which stops the “on current” to the relay circuit 314 which electrically disconnects the charger from the wall receptacle thus eliminating vampire energy loss as described in step 720. If the user decides to keep the device connected to the charger as in step 722 the feedback signal will be present and the control algorithm will then monitor the strength of the battery until the standby mode of the device drains the battery past a predefined threshold described in step 724 in which case the CPU will allow “on current” to the AC relay circuit 314.

In FIG. 4 it is important to clarify that the output buffer 312 and feedback sense input buffer 306 represent the GPIO ports on a modern SoC. Signals 406 and 410 map to register addresses that are assigned by the particular SoC’s memory map. It is also important to note that many different implementation methods from the proposed invention are possible. For example instead of using the CPU resources of the mobile devices SoC, the control algorithm could be realized using state machines coupled with the required support circuitry. This digitized control algorithm could also be realized using a hardware description language (HDL) and incorporated directly into a power management integrated circuit (IC) or even a standalone IC with assumed direct access to the battery monitor 316 of the target device 110.

V. DRAWINGS

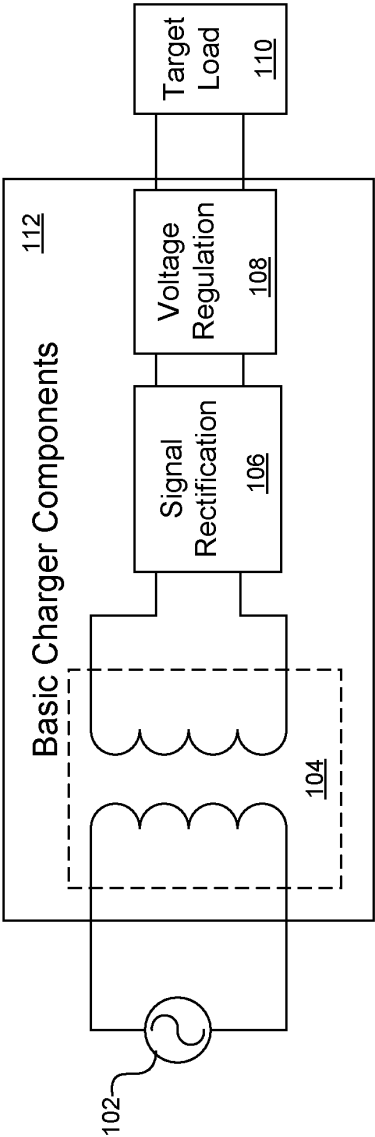


FIG. 1

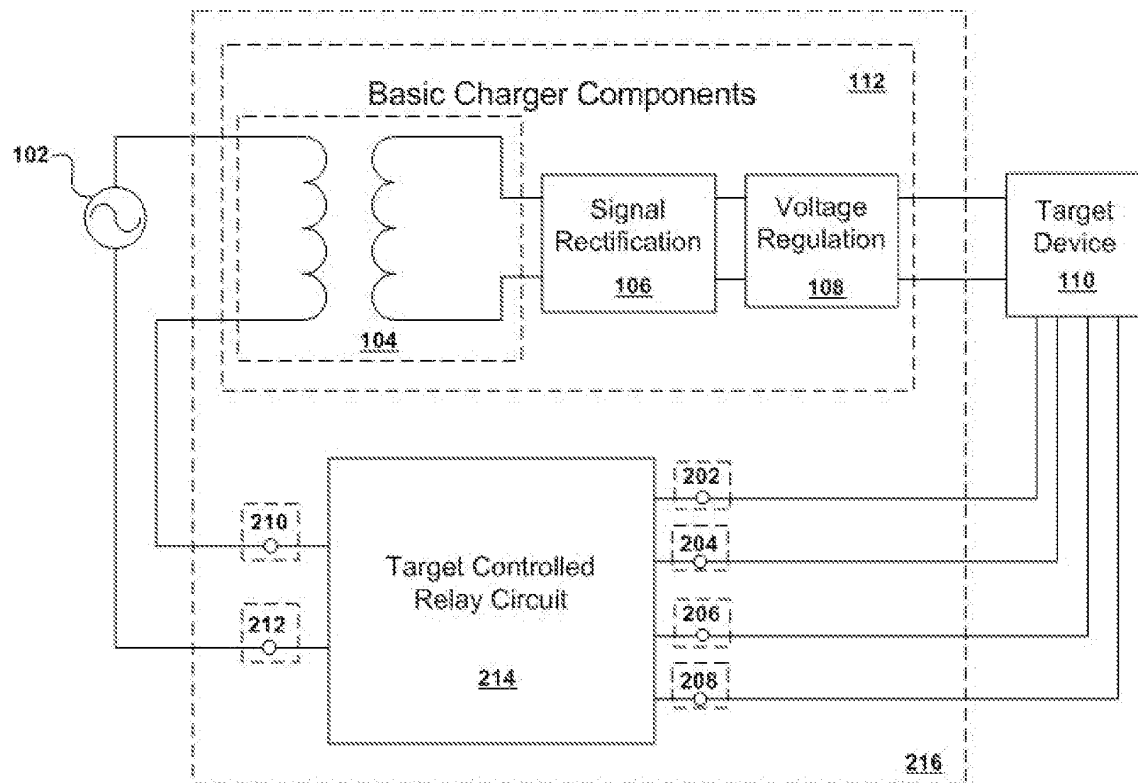


FIG. 2

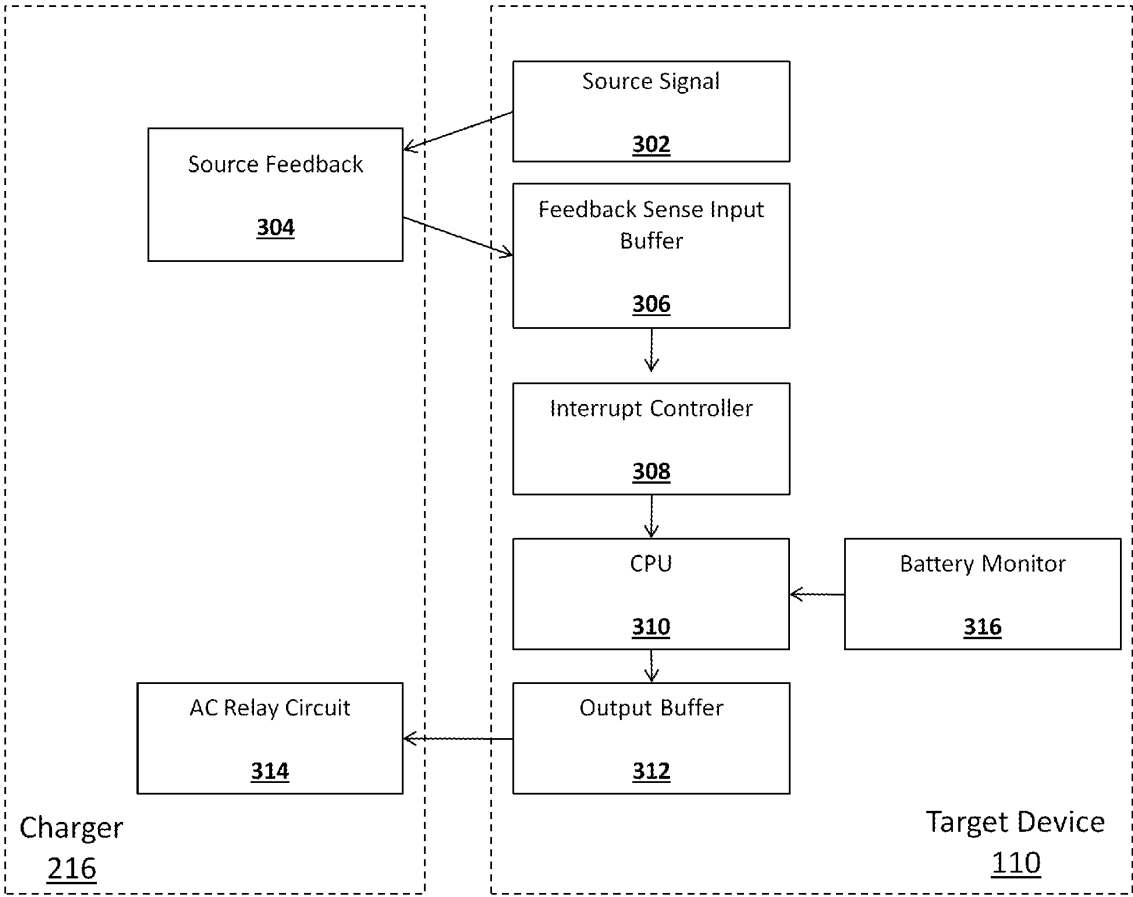
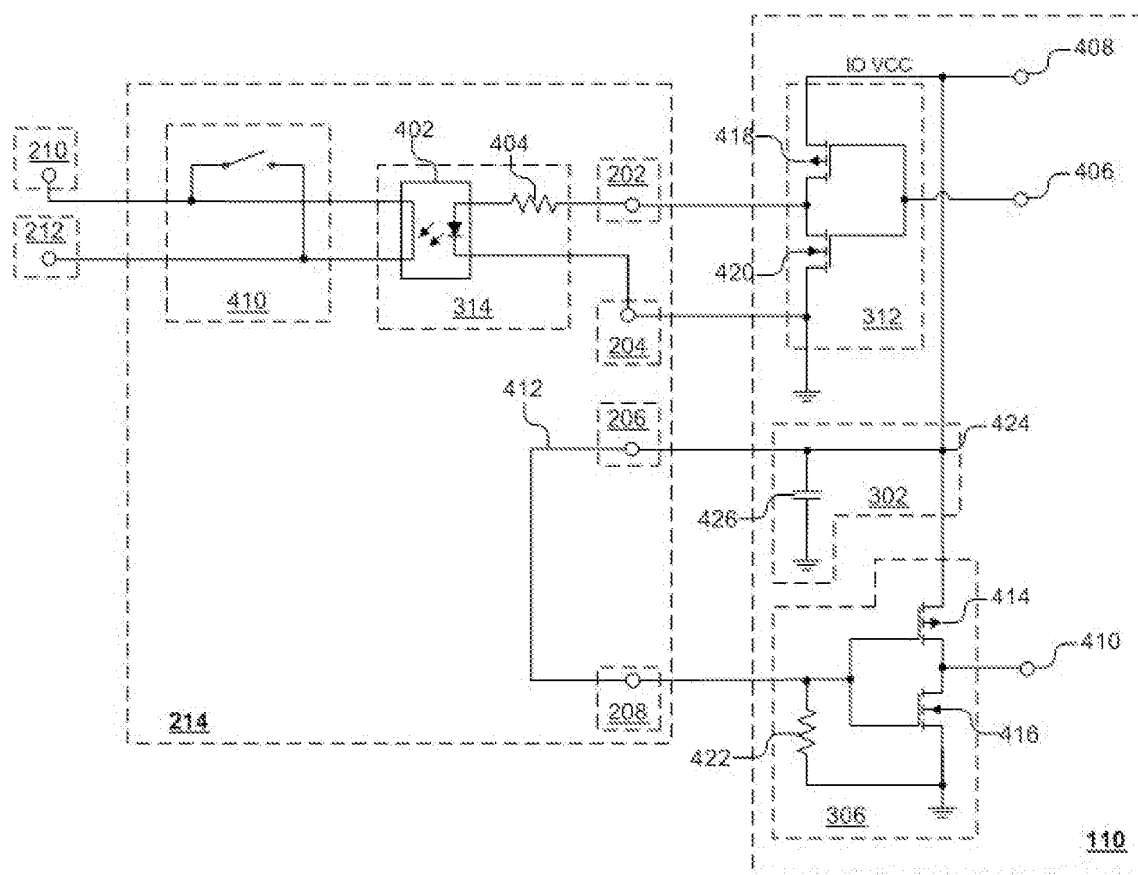
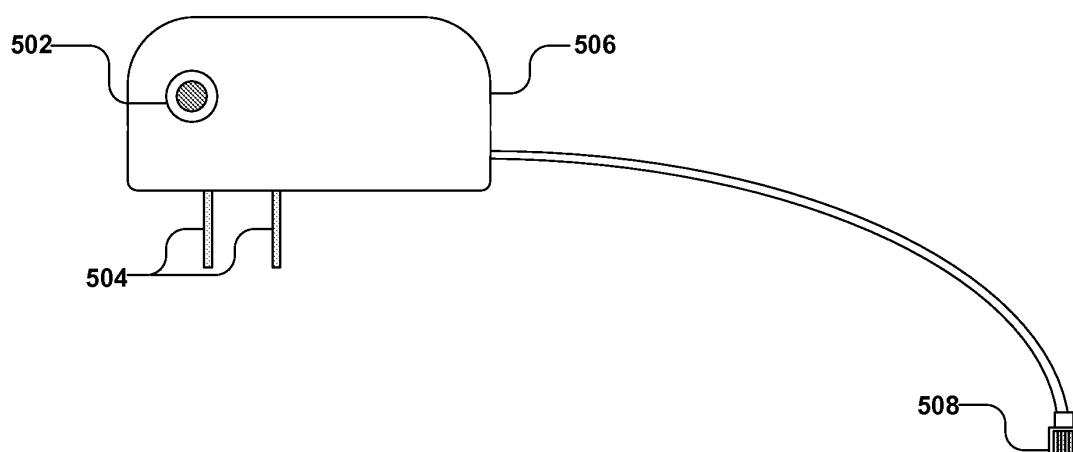


FIG. 3



**FIG. 4**



**FIG. 5**

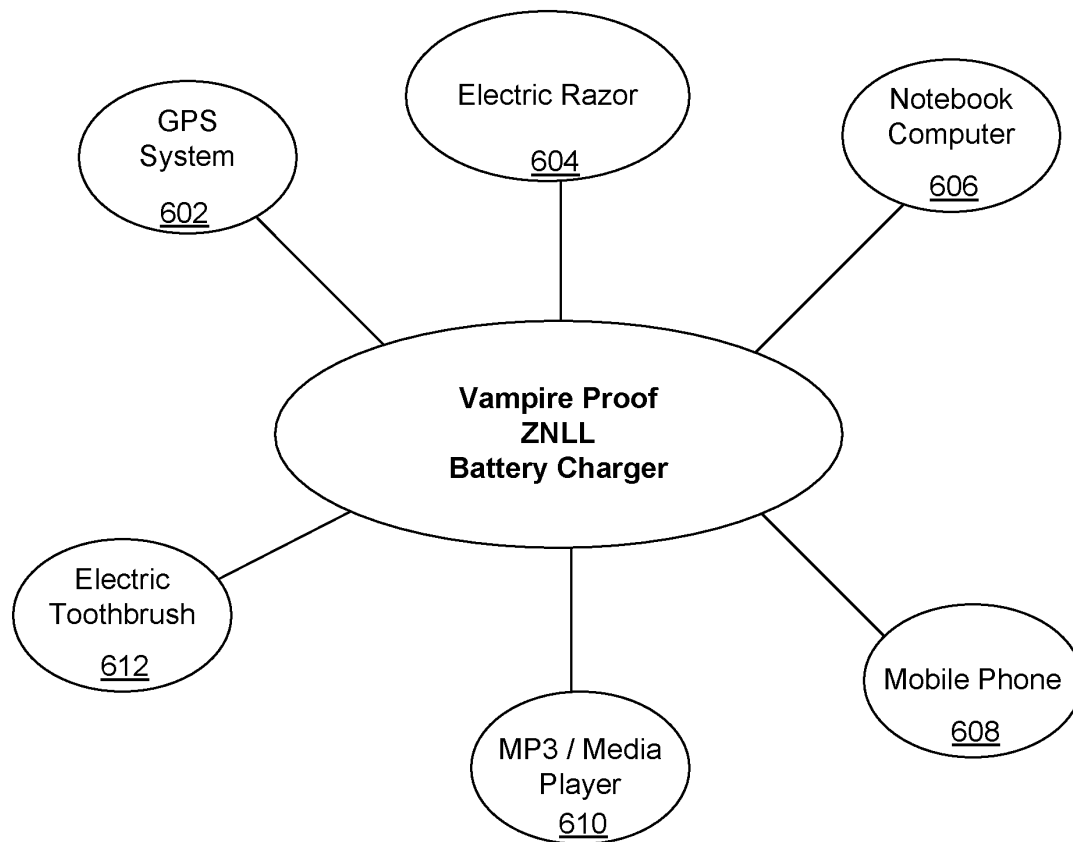


FIG. 6

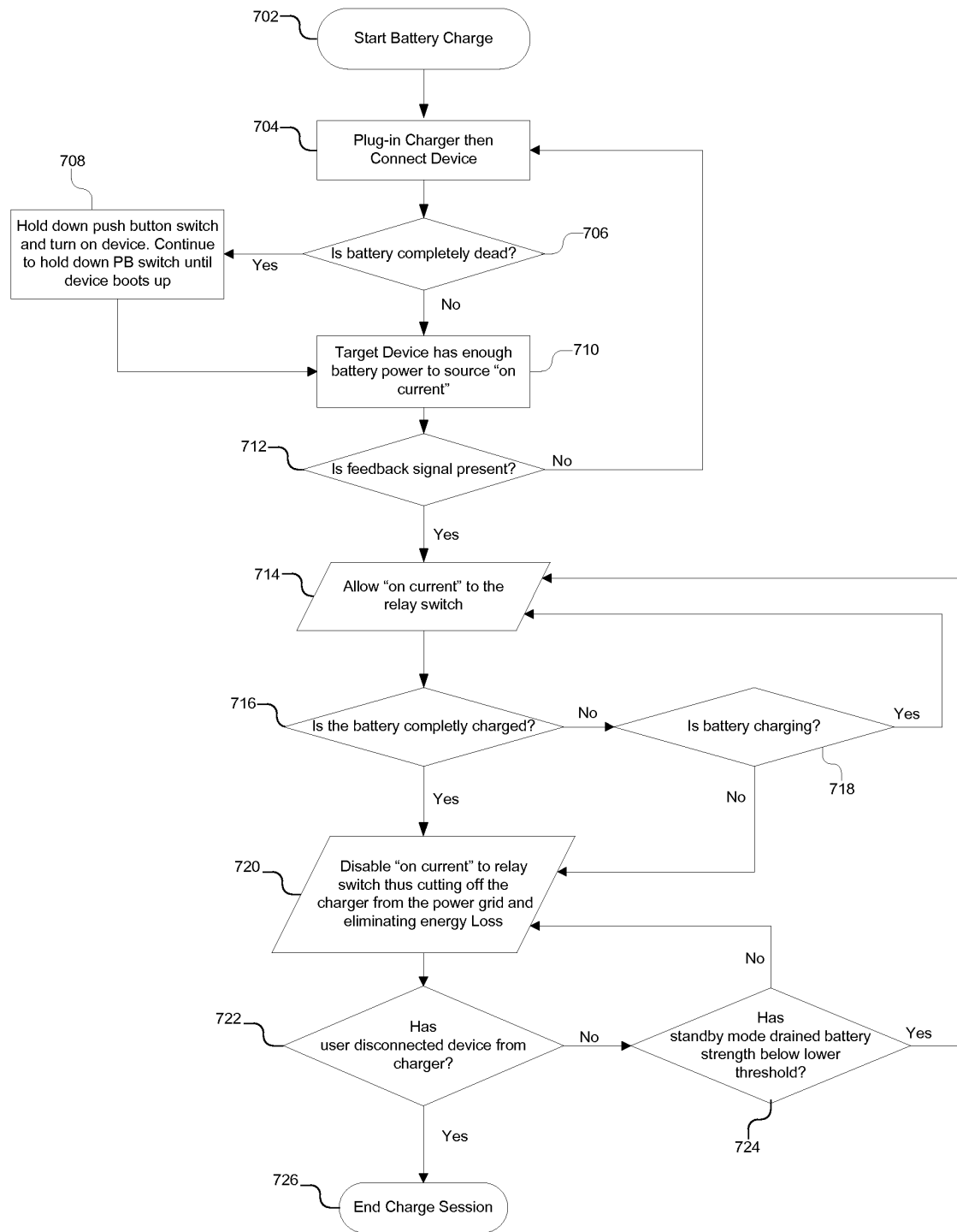


FIG. 7

Electronic Patent Application Fee Transmittal				
Application Number:				
Filing Date:				
Title of Invention:		Vampire Proof Device Controlled Battery Charger System		
First Named Inventor/Applicant Name:		Jeffrey Raymond Eastlack		
Filer:		Jeffrey Eastlack		
Attorney Docket Number:				
Filed as Small Entity				
<b>Provisional Filing Fees</b>				
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<b>Basic Filing:</b>				
Provisional Application filing fee	2005	1	105	105
<b>Pages:</b>				
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Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Total in USD (\$)				105

Electronic Acknowledgement Receipt	
<b>EFS ID:</b>	3698099
<b>Application Number:</b>	61084616
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	3183
<b>Title of Invention:</b>	Vampire Proof Device Controlled Battery Charger System
<b>First Named Inventor/Applicant Name:</b>	Jeffrey Raymond Eastlack
<b>Correspondence Address:</b>	Jeffrey Eastlack - 301 E. 4TH ST #314 Austin TX 78701 US 512-784-4307 jeff@vampirelabs.com
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1	Provisional Cover Sheet (SB16)	Eastlack_002_ProvisionalPatentApplicationCover.pdf	1523023	no	3
			75ec5126d9611504b1225370bada50f79305c900		

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2	Specification	VampireProofDeviceControlledBatteryChargerSystem.pdf	319380	no	9
			1a7dbae63f09f31a41d050b7ee0f5113fc260609		

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3	Fee Worksheet (PTO-06)	fee-info.pdf	8103	no	2
			1b576d5146fc5d38f1b962dd13ca9abc11b9fcaf		

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### New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

### National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

### New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.