



FEDERAL REPUBLIC OF NIGERIA
Patents and Designs Act,
(CAP 344 LFN 1990)

PATENT NO:.....

RP. NG/P/2008/785

Date of Patent: 28/8/2008

Date of Sealing: 02/03/2009

President of the Federal Republic of Nigeria and Commander-in-Chief of the Armed Forces
UMAR MUSA YAR'ADUA

WHEREAS a request for the grant of a patent has been made by: ILESANMI OLADE
of No. 1, Adegbeyemi Street, Off Allen Avenue, Ikeja, Lagos.
C/o Prime Solicitors, of No. 9, Ring Road, Beside Vitas Bakery, Ibadan.

For the sole use and advantage of an Invention for: "POWER ALERTER"

AND WHEREAS the Federal Government being willing to encourage all inventions which may be for the public good, is pleased to accede to the request:

KNOW YE, THEREFORE, that I do by this instrument give and grant unto the person(s) above named and any successor(s), executor(s), administrator(s) and assign(s) (each and any of whom are hereinafter referred to as the patentee) by special licence, full power, sole privilege, and authority, that the patentee or any agent or licensee of the patentee may subject to the conditions and provisions prescribed by any statute or order for the time being in force at all times hereafter during the term of years herein mentioned make, use, exercise and vend the said invention throughout the Federal Republic of Nigeria, and that the patentee shall have and enjoy the whole profit and advantage from time to time accruing by reason of the said invention during the term of twenty years from the date first above written of this instrument: AND to the end that the patentee may have and enjoy the sole use and exercise and full benefit of the said invention, I do by this instrument strictly command all citizens of the Federal Republic of Nigeria that they do not at any time during the continuance of the said term either directly or indirectly make use of or put in practise the said invention, nor in anywise imitate the same, without the written consent, licence or agreement of the patentee, on pain of incurring such penalties as may be justly inflicted on such offenders, and of being answerable to the patentee according to law for damages thereby occasioned:

PROVIDED ALWAYS that this patent shall be revocable on any of the grounds from time to time by law prescribed as grounds for revoking patents by me, and the same may be revoked and made void Accordingly:

PROVIDED ALSO that nothing herein contained shall prevent the granting of licences in such manner and for such considerations as they may by law granted.

MADE this..... 25th day of..... MARCH.....

2009



J.K. AHMADU-SUKA

Registrar of Patents & Designs

NOTE

The continuance of this Patent is conditional on the payment (by way of Patents Form No.5) of the fees as prescribed under the Patents Rules.

The Patents Form No. 5, together with the prescribed fee, must be lodged in the Patent Office not later than the due date; otherwise the patent will cease. If the form with the fee is not lodge in the Patent Office until after that date it cannot be accepted unless application for an extension of time is made on Patents Form No.6, accompanied by the prescribed fee. Extension beyond six months cannot be obtained. No reduction of extension fees shall be made in the case of a Patent endorsed "Licences of Right".

If any person becomes entitled by assignment, transmission or other operation of law to this patent, or a part interest therein, or to any interest as mortgagee or licensee or otherwise, application must be made to the Registrar to register such title or interest. Particulars as to the manner of making such application may be obtained from the Patent Office.

PROCEDURE FOR PAYMENT FEES

Patent fees are payable direct to the Patent Office by means of money orders, postal orders, banker's draft and banker's cheque, (Adhesive stamps will not be accepted in payment of fees). The prescribed fee must be submitted together with the appropriate completed Patents Form, in addition each form of batch of forms should be accompanied by a fee sheet (FS.1) showing details of the from(s) and the amount(s) of the fee(s). Money orders, etc. Should be made payable to "Registrar of Patents and Designs, Patent Office", and crossed. Patents Forms, together with fees and fee sheets (FS.1) may be delivered to the Patent office either by hand or by Designs, Patent Office, Federal Ministry of Commerce & Industry Abuja, Nigeria.

Blank Patents Forms and fee sheets (FS.1) can be obtained from the clerk of Stationery, Patent Office, Federal Ministry of Commerce & Industry Abuja.

**A DEVICE, COMPUTER PROGRAMME AND PRODUCT FOR SENSING
AND ALERTING ON THE RESTORATION OF ELECTRICITY
SUPPLY TO A PREMISES**

FIELD OF INVENTION

The present invention called "*The Power Alerter*" generally relates to an apparatus for performing operations that notifies with an audible alert the restoration of electricity to an installed circuit in a premises.

BACKGROUND

In most homes and premises in developing economies, there is a heavy reliance on alternative power sources like generators due to inadequate power generation and supply from the primary power providers. This has occasioned many households and business premises to depend primarily on petrol/diesel powered generators to back up public electricity supply. The fuel itself has over time increased in cost astronomically thus adding to a total increase in cost of production of goods and services.

Our observation is that usually when public power is restored, many generators continue to run as the household may not immediately know when public power is restored. It is common to have supply from the Power provider restored and few minutes after, power is cut off again.

The available contraption commonly used today to alert generator users when public power is restored is to fix a set of indicator lights fixed near the electric meter or some other point in the house where they may be seen. The bulbs merely light up when public power is restored. The process occasions waste of generator fuel as the generators will usually continue to run until someone eventually visually sees the indicator lights on to now put off the generator. At other times, the restoration of light is merely temporary as it is again cut off in few minutes after one has switched off the generator, thus occasioning the inconvenience of having to go switch it on again.

DESCRIPTION OF THE INVENTION

In view of the above described background, the innovative embodiments of the present invention provides an improved apparatus and computer program product for audibly (rather than visually) alerting occupiers of a premises where alternative power (generators) is in use, of the restoration of electricity. The present invention is an audible power alerter which operates as an electronic timing device that uses electrical circuits to sense the arrival/restoration of electricity in the circuit and waits for a preset delay period before activating a bell that rings for an equally preset duration creating an audio alerter. Accordingly, when power is on, the device will sense it and wait for a preset duration of between 15 to 120 seconds before activating the bell to ring to alert the household of the restoration of power. The duration of the ringing of the bell could be equally preset for between 10 to 60 seconds to enable the alert to be audible enough to all.

An aspect of this invention is a device for sensing arrival of electricity to the circuit and routing electricity. This device includes a preset timer module which allows one to set a time frame within 15 to 120 seconds before the bell alert rings out.

DESCRIPTION OF DRAWINGS

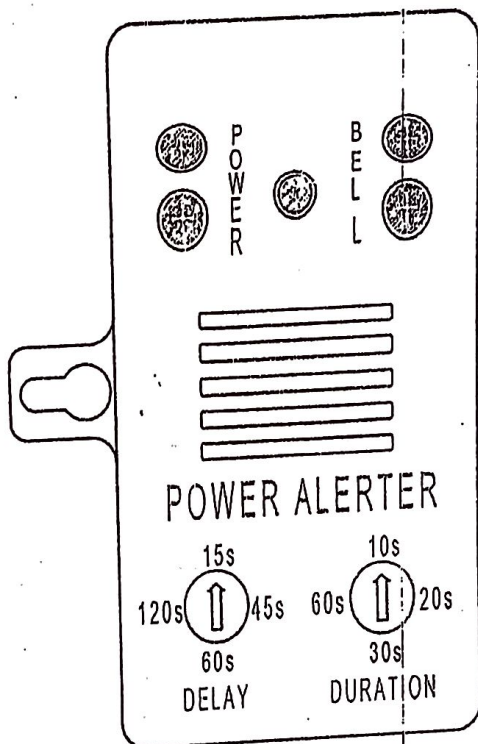
Having described the invention in general terms, we refer to the accompanying drawings (not drawn to scale).

The diagram shows a functional block of an entity capable of operating as intelligence based alert for restoration of public electric power in accordance with an exemplary embodiment of the present invention.

FUNCTIONS OF THE POWER ALERTER SYSTEM

The Power Alerter is a Electronic Device that "senses" when Electricity from NEPA is Available.

After Electricity has Arrived the Devices waits for the PreSet DELAY set by the User. Then RINGS the Attached BELL for the preset DURATION period.



electricity is sensed on input lines and the in-built program logically transmit to the bell ringer to alert that electricity has been restored using preset timer delays.

THE CLAIMS

1. A device for automatically sense power availability on electricity circuits using intelligence based alert to sense restoration of power on the input line where the device is configured to a choice of time duration spanning 15 to 120 seconds.
2. A device according to Claim 1 wherein the device is configured to trigger an alert on the attached bell ringer upon the preset duration being reached.
3. A device according to Claim 1 wherein the device is configured to automatically ring out an alert for a preset duration in an audible fashion using ringer bells.